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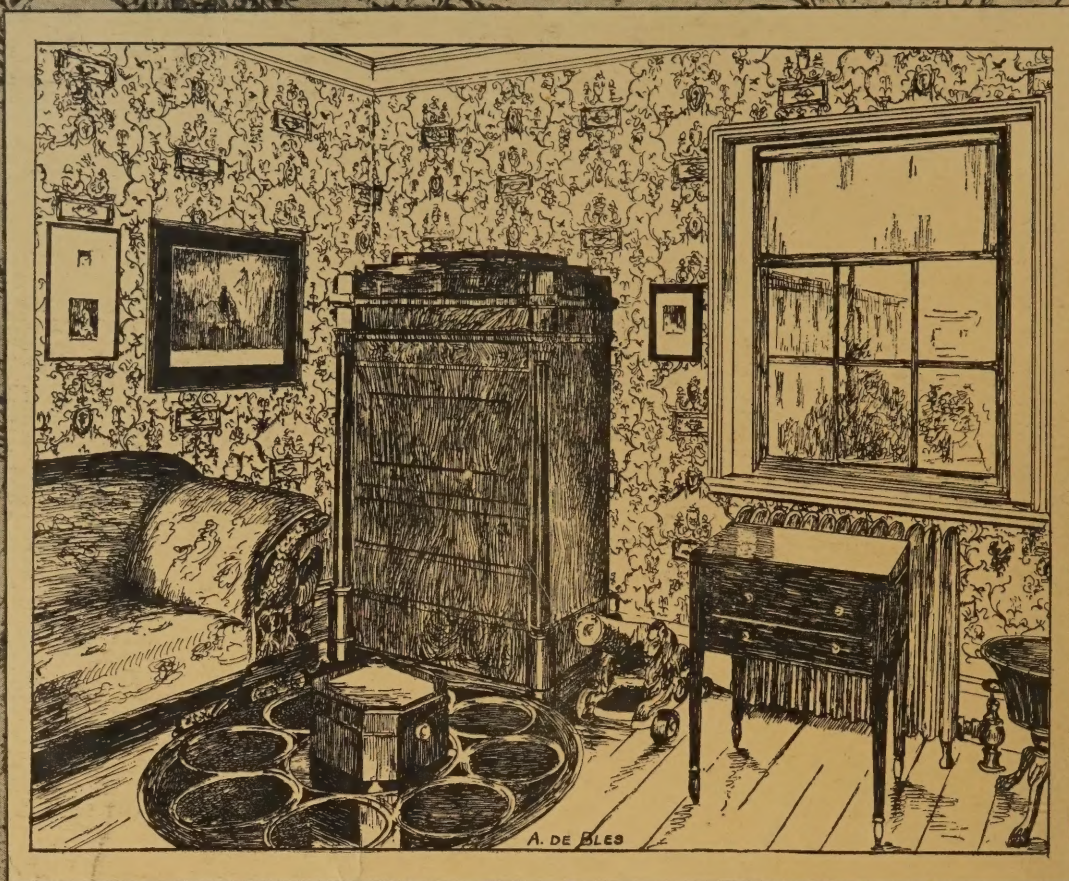
THE AMERICAN ARCHITECT

FOUNDED 1876

OF ALL THE ARTS, ARCHITECTURE
ALONE HAS KEPT STEP WITH PROGRESS.
IT HAS MET THE IMPERATIVE DEMANDS
OF THE INVENTIVE MASTERS OF THE AGE.
IT HAS BUILT TO FIT THEIR NEEDS.
TO THE STRUCTURES CREATED, IT HAS
IMPARTED BEAUTY, DIGNITY AND
COMPLETE UTILITY. AFTER MORE THAN
A HALF CENTURY OF SERVICE IN
THE FIELD OF ARCHITECTURE, THE
PUBLISHERS OF THIS JOURNAL RE-
DEDICATE IT TO THE PROFESSION
THAT HAS GIVEN TO AMERICA ITS
LEADERSHIP IN THE ART OF BUILDING

MDCCCLXXVI - MCMXXVI

APRIL 20, 1926



BETTY JUMEL, who married Aaron Burr when both were on the verge of old age, furnished her famous mansion on Harlem Heights partly in the Early American mode and partly in that of the France in which she had succeeded in establishing a certain social prominence.

The room illustrated above is a mixture of such styles which, as stated in previous notes, has a distinct elegance when cleverly handled. In this case, the charming late Louis XVI "*toile de Jouy*" paper blends well with the Empire secretaire, the American settee inspired by the same style, the small carronade, the polished mahogany table and other details.

Toile de Jouy papers, which are produced in many patterns and color combinations, are always effective in modern American living rooms.

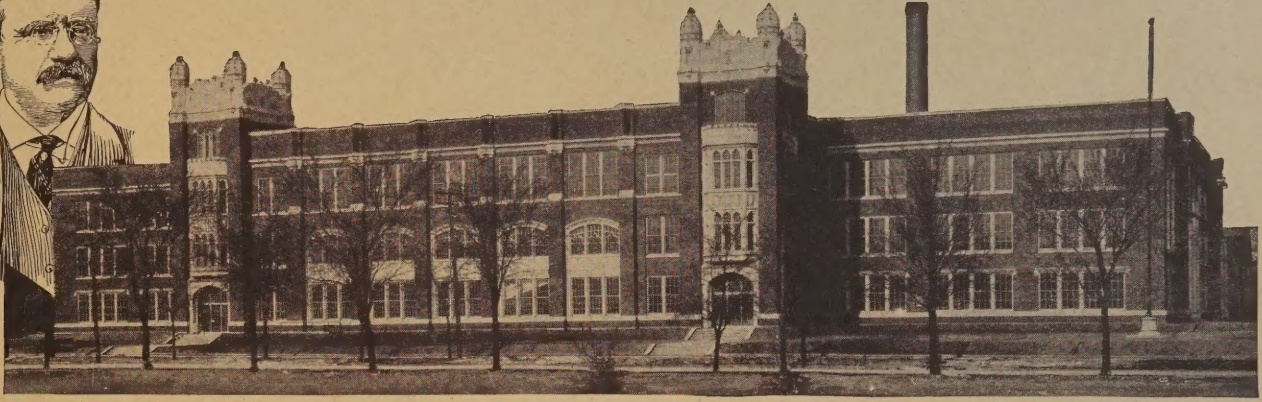
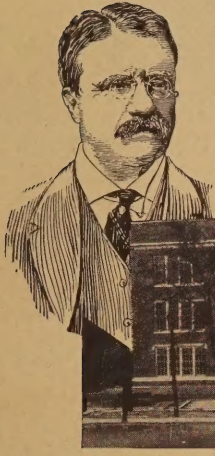
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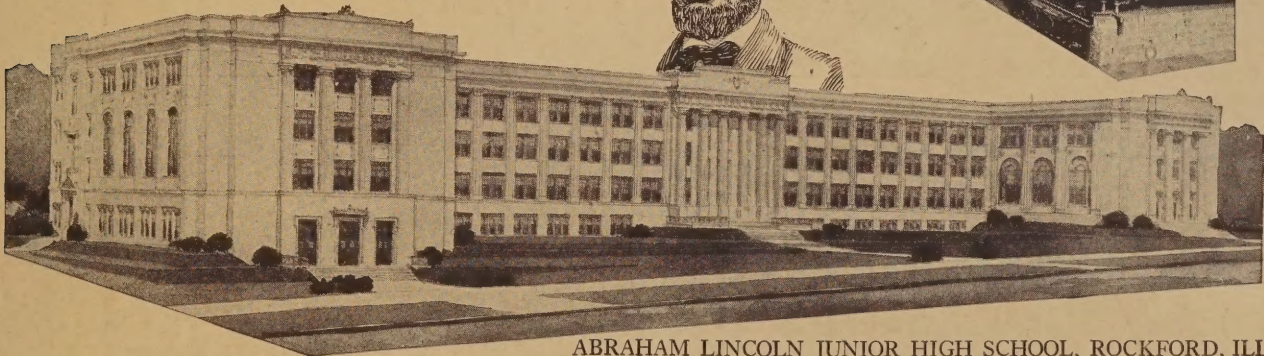
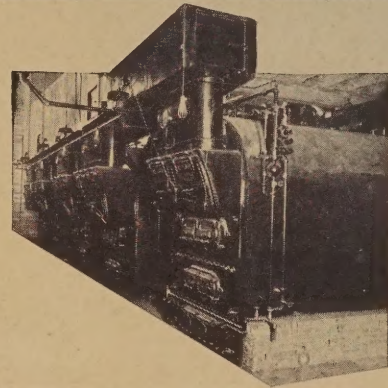
Four No. 323 and one No. 317 Kewanee Smokeless
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Boiler load—100,000 square feet equivalent direct
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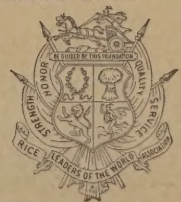
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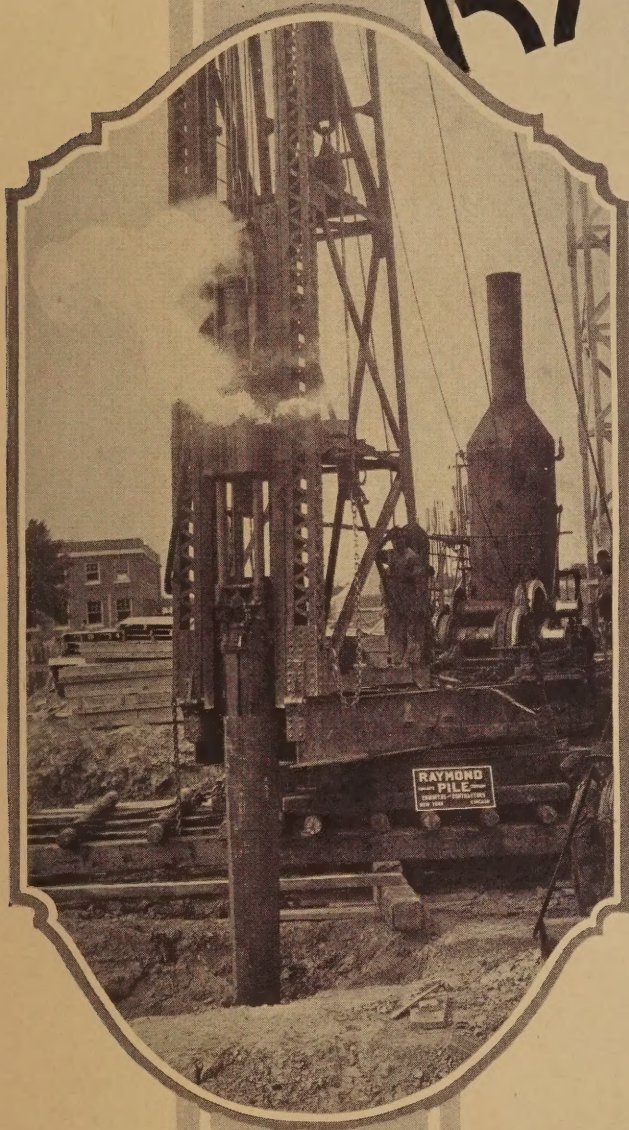
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THE AMERICAN ARCHITECT

WITH WHICH IS CONSOLIDATED THE ARCHITECTURAL REVIEW

VOLUME CXXIX

APRIL 20, 1926

NUMBER 2495

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ARCHITECT
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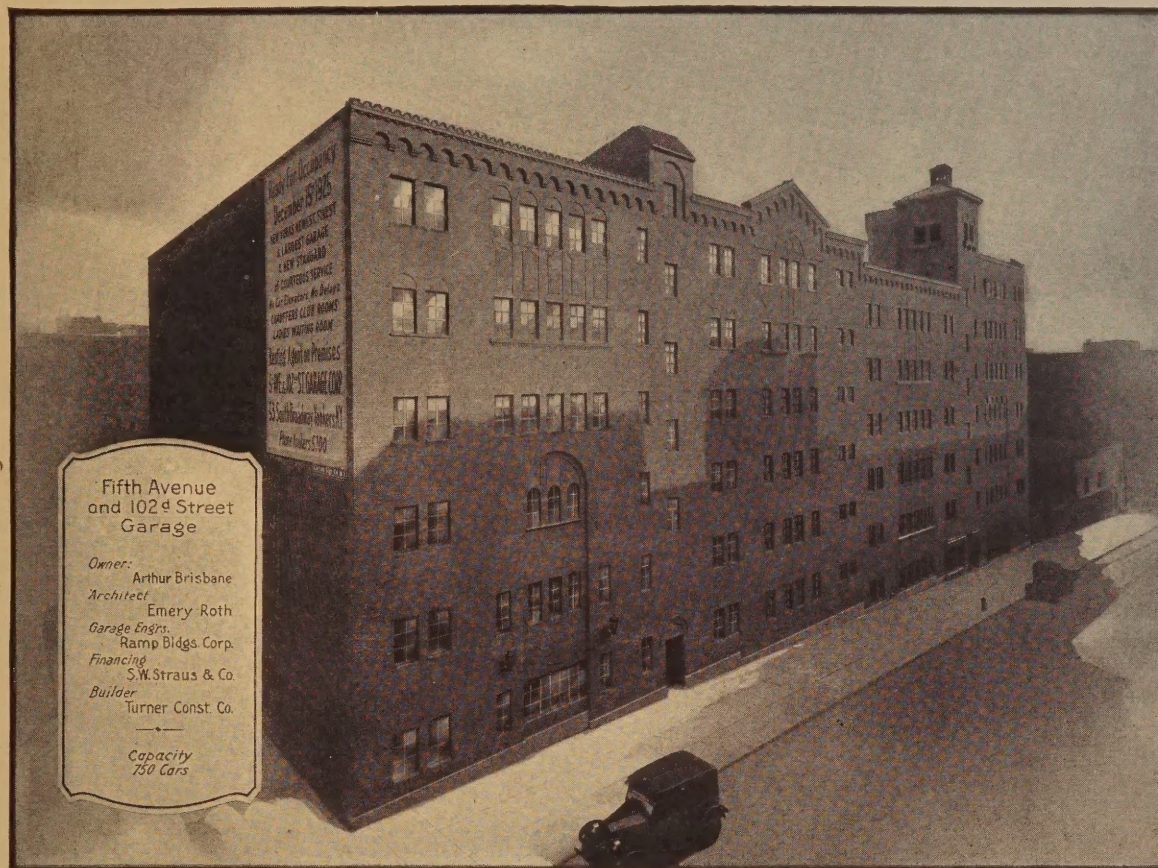
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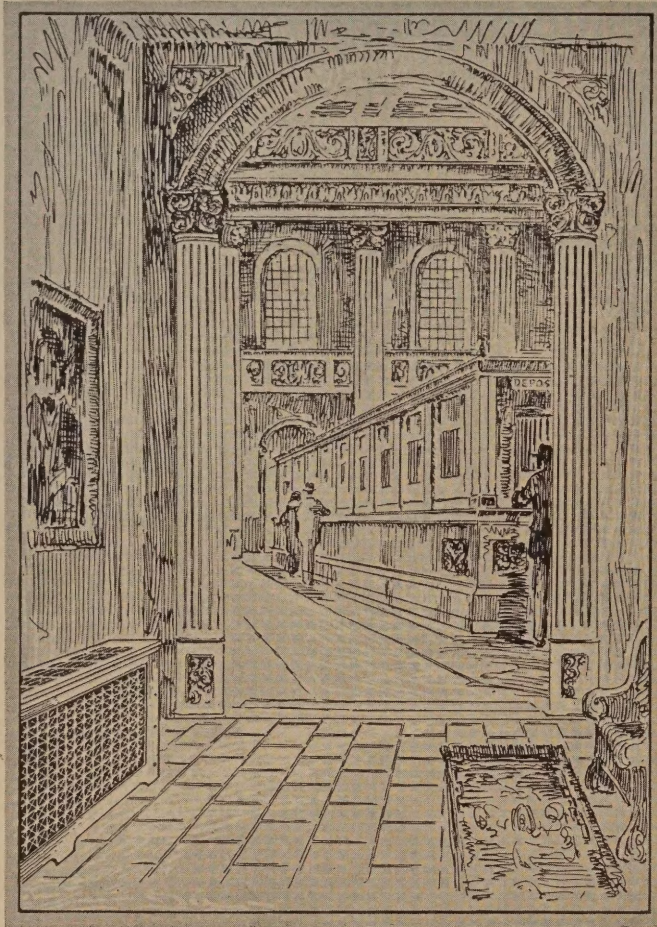
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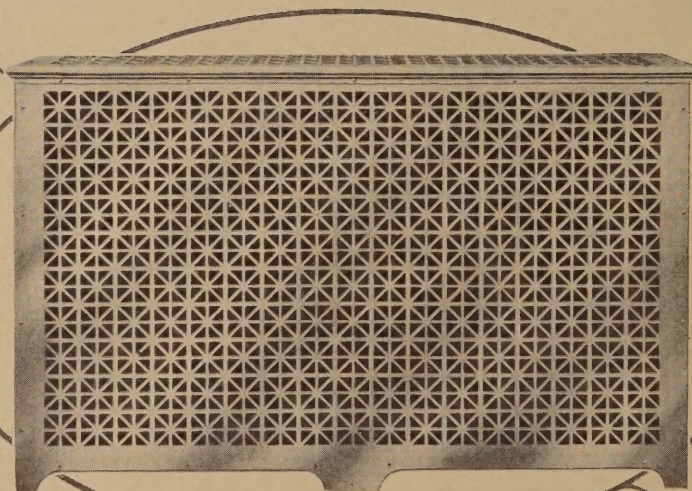


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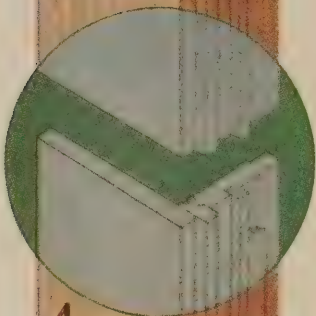
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6. Parting stop groove is shallower than sill dado. Water hitting the groove drops upon the sill and follows slope outdoors — an original stock frame feature.

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THE PUBLISHERS' PAGE

IN THE frontispiece of this issue, and elsewhere in preceding issues, there has been shown a series of paintings in oil, of details of certain cathedrals in France. These are the work of Pieter Van Veen, a Dutch painter, who is a lineal descendant of Pieter Van Veen, one of the early Dutch masters of painting. An exhibition of thirty or more of Mr. Van Veen's paintings of French cathedrals has been open at the Milch Galleries in this city, and has attracted the attention of architects. Accurate in drawing and fine in color, this series of paintings demonstrates the possibilities of oil color, when properly handled, in the rendering of architectural motives. It seems to be generally accepted that water color is the correct medium in which to express an architectural subject. That oil color has not been more often used is due, perhaps, to the fact that artist painters have not been afforded opportunity to demonstrate the possibilities of a rendering done as an easel picture.



The next following issue, May 5, will present a series of collegiate buildings that are of recent execution and of considerable value as showing the development of these formal groups. The necessity for architectural coherency in this type of building is today better understood than ever before. Lack of a coherent and well-considered plan at the outset has resulted in a very serious lessening of architectural interest at many universities. The awakening has disclosed the fact that it is expensive to proceed in these matters and that it is an architectural problem of much difficulty to design new buildings to set in accord with a heterogeneous lot of earlier types. While the larger universities with larger endowments have in many instances overcome these difficulties, the smaller colleges and less prosperous universities are sorely handicapped in their building programs. The leading article in this issue will be by Thomas E. Tallmadge, F.A.I.A., and will be found to be a very scholarly discussion of these conditions.



Two important developments in civic betterments are shown in this issue. The water front development for Detroit, Mich., as designed by Eliel Saarinen, the distinguished Finnish architect, will, when brought to completion, constitute a further source for civic pride by the citizens of Detroit. The plan for Buffalo, N. Y., the work of a joint commission, shows a large measure of accomplishment, and, with the energetic management that has marked the development of this plan, will rapidly proceed toward securing for the City on the Lakes a most thoroughly and satisfactorily designed improvement.

Publication dates of this journal are the 5th and 20th of each month. It will be easy for subscribers to calculate the dates on which the respective issues should reach their offices. The publishers will be obliged if subscribers will promptly advise them of any unusual delay, as it is the purpose to have THE AMERICAN ARCHITECT promptly delivered.



There is a never ending charm to the pictorial aspect of English towns. William Pitkin, Jr., and Seward H. Mott, both landscape architects, have been making a tour of the English rural districts. They have secured a number of most unusual photographs and have set down their impressions in the form of an article.

At about this time of the year architects contemplating a trip abroad are making itineraries and forming plans for the summer's outing. Issue of June 5 in its articles will be largely a travel issue and will set forth the experience and observations of men who have toured Europe.

In addition to the article by Messrs. Pitkin and Mott, there will be a very carefully written contribution by Walter H. Kilham of the architectural firm of Kilham, Hopkins & Greeley. Mr. Kilham has come back from Spain, where he journeyed to places out of the beaten track. His article and illustrations present an unusual aspect of Spain.

Gerald K. Geerlings will contribute an article dealing with a sketching tour in Holland.



Samuel Chamberlain, whose etchings and lithographs have been frequently shown in this journal, has, during the past winter, been a member of the faculty of the University of Michigan at Ann Arbor. It is Mr. Chamberlain's intention to return to France in the late spring, where he will make his headquarters for some time. We are pleased to announce that Mr. Chamberlain has consented to act as European representative of THE AMERICAN ARCHITECT, and will, soon after his arrival, contribute the first of a series of monthly articles on architectural conditions in Europe. These articles will be illustrated by original sketches by Mr. Chamberlain. The field will not be confined to France, but throughout Western Europe, where conditions are of sufficient importance to warrant special mention.



There will appear in an early issue an article, very fully illustrated, on the Ohio Stadium at Columbus, Ohio. This stadium, one of the largest in this country, seats approximately 64,000 people. It is an outstanding architectural and engineering undertaking. Howard Dwight Smith is the architect and Clyde T. Morris the engineer.



(Permission of Milch Galleries)

THE FLAGELLATION, DETAIL OF THE FACADE, CATHEDRAL OF LOUVIERS

FROM THE ORIGINAL PAINTING IN OILS BY PIETER VAN VEEN

THE AMERICAN ARCHITECT

FOUNDED 1876

THE BUFFALO CITY PLAN

AN ACCOUNT OF THINGS DONE AND TO BE ACCOMPLISHED

ORDER and beauty are the two principles in architecture which are expressed in comprehensive city planning. Something of both has been accomplished in Buffalo in the past five years during which serious and organized effort has been made to convince the citizens of Buffalo that it is necessary to agree at the very outset upon a complete layout of the city's area if there is to be, finally, a harmonious relation and distribution of the various public buildings, parks, parkways and streets.

The leader in this movement has been the Buffalo City Planning Association, Inc., a volunteer membership organization incorporated for the express purpose of promoting Buffalo's City Plan. Besides giving their financial support,

many of these members have devoted invaluable time and effort to the several campaigns which have been necessary to secure popular approval and support and insure a successful outcome.

Successive stages of development have been the appointment of a City Planning Committee; the development of a plan as the basis of all future public works; the designation of Niagara Square as the Civic Center and the decision of the City Council to erect a monumental City Hall on this site, the lands for which have been purchased; the widening and extension of important streets to improve traffic conditions and expedite a constantly growing use; the acquisition of additional parks and park lands; the adoption of a zoning



BUFFALO HISTORICAL SOCIETY BUILDING

THIS WAS THE NEW YORK STATE BUILDING DURING PAN-AMERICAN EXPOSITION

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KEY MAP

ordinance for the protection of property owners; new and more adequate traffic arteries for South Buffalo accomplished by the straightening of Buffalo River and Cazenovia Creek, the relocation of streets and the building of new streets; and the adoption of a harbor plan which eventually will give Buffalo the largest and best fresh-water port in the world.

On the aesthetic side is the location of a new Buffalo Museum of Science in Humboldt Park, which affords a magnificent setting for a splendid classic building to cost one million dollars and to house the collections and educational work of the

Buffalo Society of Natural Sciences. Contracts for the construction of this building have been let under which the Museum will be completed by April, 1927. Parkways directly connect this new building with the Albright Art Gallery in Delaware Park, one of the finest examples of Grecian architecture in America, and also with the white marble building of the Buffalo Historical Society in Delaware Park.

Chauncey J. Hamlin has been President of the Buffalo City Planning Association ever since its organization. His annual report for 1925 points out "Ten Milestones of Accomplishment" and

"Ten Milestones Ahead." These admirably summarize what has been done in Buffalo toward the realization of a better city and also indicate the principal problems of the immediate future. The ten accomplishments are:

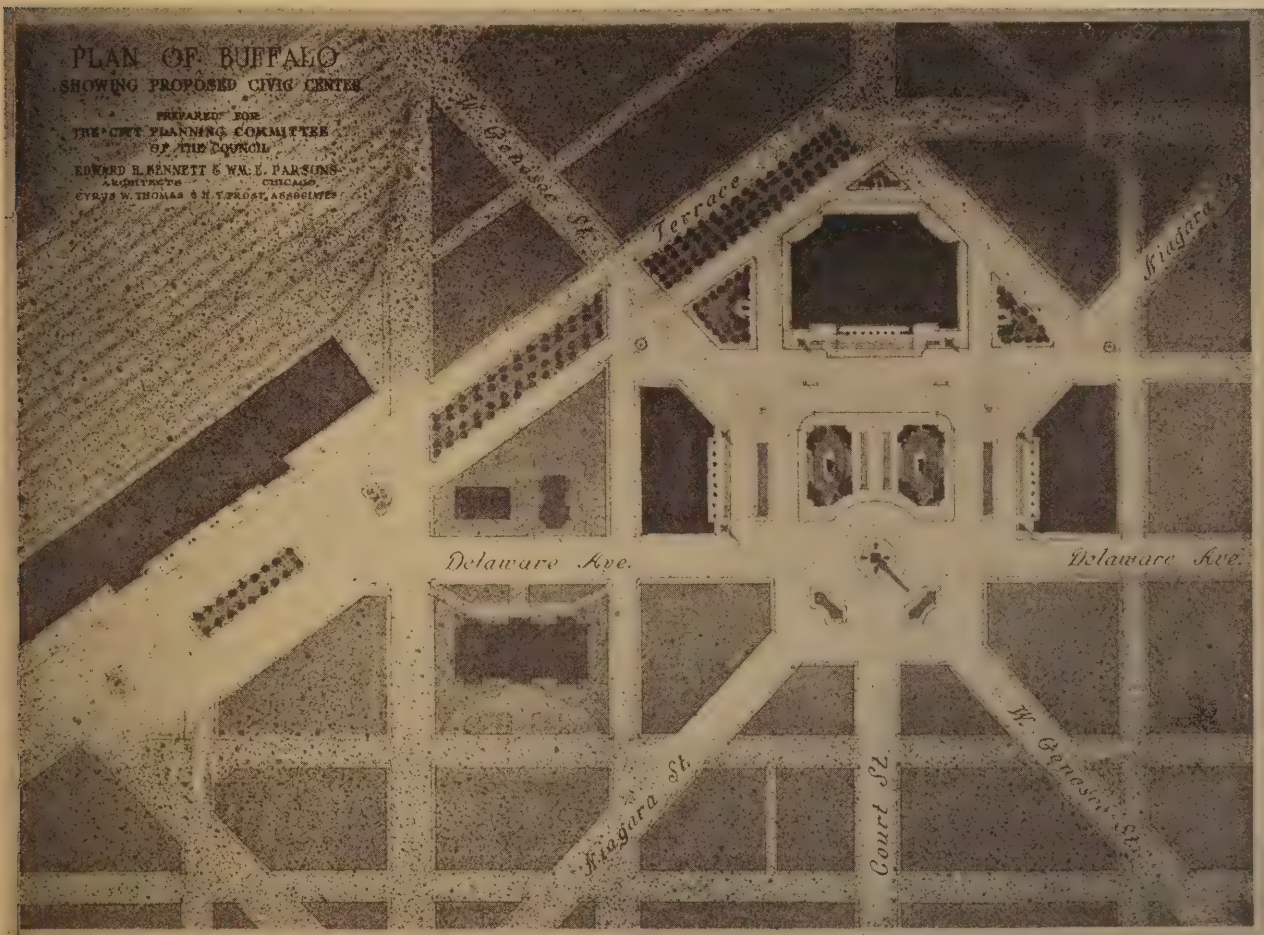
1. *Zoning ordinance adopted.* This was secured by the most strenuous efforts and the conduct of a long campaign. A public sentiment in favor of zoning regulations was built up to an extent which could not be ignored, and the principles of the carefully studied ordinance proposed by the City Planning Committee were approved. The whole area of Buffalo was then divided into eighteen sections, each of which included a well defined district development, so that each could be designated by a familiar name which immediately identified it and in most instances delimited it. Public meetings were called and held in each of these districts. At each there were displayed base maps of the district on which were shown the proposed application of the use, area and height regulations to every lot, street and building. Some minor changes were suggested and agreed upon at these meetings, but the whole result was to consolidate the sentiment for zoning. At the final hearing on the adoption of the maps as a part of the ordinance, 225 civic organizations

were represented. No serious criticism of the ordinance was advanced. The vote of the City Council was unanimous, reflecting unanimity of sentiment in the city in a degree never before attained.

2. *Selection of Niagara Square as the Civic Center.* An architect for the new City Hall is to be selected by the City Council. The Buffalo Chapter of The American Institute of Architects has asked the Council to designate a Buffalo architect for the building.

3. *Buffalo-Fort Erie Bridge.* During all the years of its history Buffalo has had to depend upon ferries in crossing to the Niagara peninsula in Canada, directly opposite the city. Many citizens of Buffalo have summer homes on the Canadian side, the lee shore of Lake Erie, and thousands more cross the Niagara every summer's day. A company was organized and financed, the bridge is under construction, and in a few months will be thrown open to the public. This venture is unique, in that when the bonds sold for its construction are amortized by the receipts from tolls, the bridge will belong to the public, with a reduction in tolls to a sum sufficient for its maintenance.

4. *New York Central Station.* The solution



PLAN SHOWING CITY HALL GROUP ON WEST SIDE NIAGARA SQUARE



ALBRIGHT ART GALLERY, BUFFALO

of the station problem is a new station on Curtiss Street, in East Buffalo, but nearer to the center of population than the present station, which will give to Buffalo an adequate terminal and the service of all through trains. The agreement also calls for a downtown station. Better access to the new site will be provided by street extensions and widenings. Work on the new station is to be begun at once.

5. *Delaware Avenue Widening.*

6. *South Buffalo Improvements.*

7. *New Parks.* The purchase of the Buffalo Country Club's grounds, on the north boundary of the city at Main Street, and the acquiring of additional lands for the enlargement of Cazenovia Park in South Buffalo were the leading accomplishments in this field in 1925.

8. *Buffalo Museum of Science.*

9. *The Extension of William Street to Broadway.* This improvement, when completed, will provide another artery for traffic to the downtown section.

10. *Adoption of a comprehensive plan for the municipal development of that portion of the outer harbor between Michigan Avenue and the U. S. Government property at the mouth of Buffalo River.*

These achievements not only serve as an inspiration but point the direction of progress for the future.

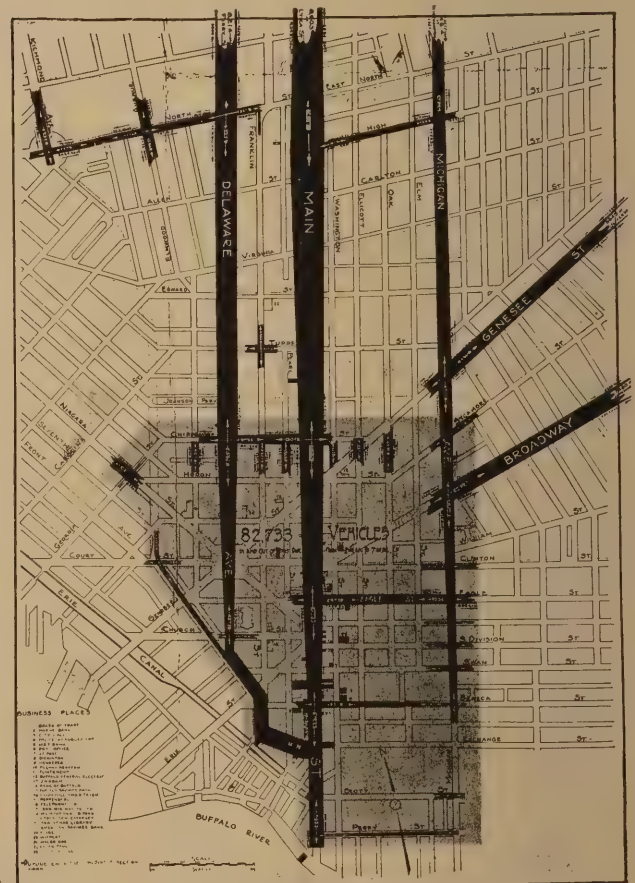
The ten future milestones, each important in the development of the comprehensive city plan, are:

1. Extension and widening of North Street from Fillmore Avenue or Humboldt Park west to Main Street, to provide a through crosstown artery, outside the congested section, to the new Buffalo-Fort Erie Bridge and the city's water front parks.

2. Early completion of the water front park system, including the improvement for recreational purposes of lands already owned by the

city and the acquisition of Squaw Island in the Niagara River.

3. A war memorial hall to replace the Elmwood Music Hall and to be erected on a site easily accessible from all parts of the city. The site suggested brings to the forefront the main project of the Buffalo City Plan—the proposed Con-



THE width of the black lines shows the relative volume of daily vehicle traffic on our main thoroughfares. Note that there are about 83,000 vehicles (during a 12 hour period) entering and leaving our downtown area which is shaded on the map. As traffic increases in congested areas twice as fast as the population of the city, the congestion in our downtown district will be very serious in ten years. The solution to this problem is the immediate construction of the Circuit Traffic Way.

ONE DAY'S TRAFFIC COUNTS



BUFFALO MUSEUM OF SCIENCE

course, a great highway circling the downtown section.

4. North Buffalo improvements. Across the northerly end of the city, the State Hospital grounds, Delaware Park and Forest Lawn Cemetery constitute what is virtually a Chinese wall, barring access to the rapidly growing section north of them. At present there are only two gates through this wall, Delaware and Elmwood Avenues, and more must be provided through a comprehensive study of the whole section.

5. Completion of the Civic Center on Niagara Square by the erection of a State building on the north side, flanking the new City Hall and to be

a Grover Cleveland memorial, and the construction by Erie County of a Hall of Records on the south side of the Square as a memorial to Millard Fillmore.

6. Proposed removal of overhanging signs from all of the approach streets to the new Civic Center. This already has been done on Delaware Avenue.

7. Determination of the main thoroughfare system of the city and the execution of the necessary widenings and extensions.

8. Buffalo's Recreation Survey shows conclusively the very great need of further developing the city's small neighborhood park and playground



PLAN OF BUFFALO, SHOWING CIRCUMFERENTIAL TRAFFIC WAY

system to provide adequate facilities for the recreation of its child and adult population.

9. A bathing beach to be acquired, easily accessible to all the people of Buffalo.

10. Adoption of a capital budget. This proposes a study of the fiscal condition of the city in order to arrive at the amount of capital funds available for expenditure by the city over a period of years without encroaching on the safe percentage of capital debt margin, and without materially affecting the tax rate. It is estimated that five to six millions a year may thus be spent without infringing on the debt margin or increasing the tax rate.

Realizing the importance of planning, the Boards of Supervisors of the Counties of Erie and Niagara took a forward step and secured legislation creating the Niagara Frontier Planning Board, which is liberally supported by appropriations from the two County Boards. It is made up of the mayors of the six cities in the two counties, three designated representatives of the Board of Supervisors of Erie County and three from the Niagara County Board of Supervisors, as ex-officio members, these twelve choosing the thirteenth member, who is chairman.

The Board's assistance was almost immediately sought for the solution of detailed problems in several communities, but its first big task was a request from the New York State Council of Parks to develop, in co-operation with the Erie County Park Commission and the New York State Reservation Commission at Niagara Falls, a comprehensive and co-ordinated state park and parkway system for the two counties.

The plan developed, which calls for a new park connection between Buffalo and Niagara Falls, crossing Grand Island, and a north-south parkway

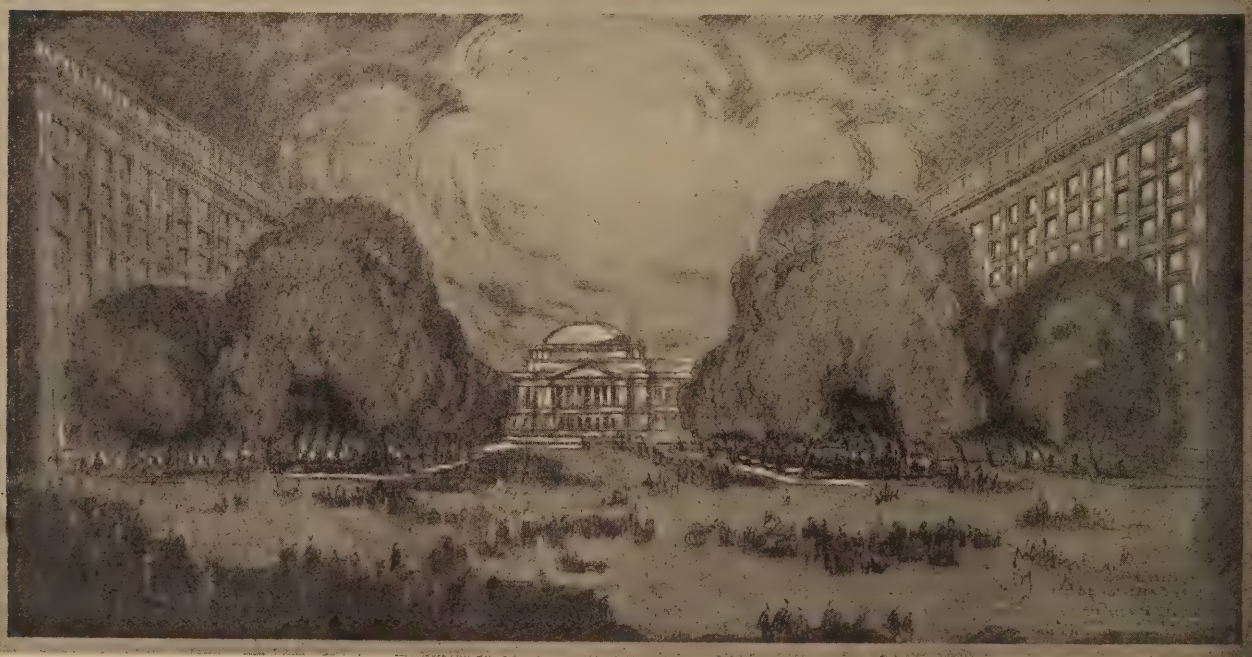
connection between Sheridan Drive and the Sisson Highway, received the official sanction of the New York State Council of Parks. It is expected to carry out this plan through state funds appropriated by the Legislature under the authorization of the constitutional amendment adopted in 1925.

These Niagara Frontier organizations may be looked upon as the prototype of many similar movements which will develop as the people begin to realize the importance of planning in advance of the execution of public works, so that the greatest good may result from the minimum of expenditure. They already have been the model for other district organizations in New York State, notably the Capitol District.

30

TRAFFIC IMPROVEMENT IN CHICAGO'S CITY PLAN

CITY planning is sometimes charged with being impractical; a pretty picture that is never realized, states *Engineering News-Record*. Latterly this is far from true, especially in the more utilitarian applications which eschew the so-called artistic and ornamental and plan the future city for a greater convenience and comfort. These dreams are coming true in a number of our cities, and nowhere with more benefit to the citizens than in Chicago. Years ago Daniel H. Burnham planned a greater and better Chicago; the City Plan Commission for more than ten years has been moving toward the city he saw in his mind's eye. The practicable and the workable were as much of Burnham's plan as the beautiful, and this practically is being developed better today in the relief of the traffic congestion in the downtown "Loop" than in any other feature of the plan.



LOOKING EAST TOWARD PROPOSED CONVENTION HALL ON CIRCUIT TRAFFIC WAY

THE REGULATION OF COMPETITIONS

By CHARLES BUTLER, F.A.I.A.

Chairman, Committee on Competitions of The American Institute of Architects

FOR years the Institute has struggled with the regulation of competitions, and when we, who are of the older generation, recollect the conditions under which we competed a quarter of a century ago, it is easier to understand the feelings which actuated the elders of that day when they drafted the Institute Code. It is often asserted that the Code was written by men who wanted to discourage the holding of competitions, and I am inclined to believe that to be the fact; they certainly succeeded in producing a document which is unintelligible to the average layman, and fairly difficult of comprehension even for the trained architect.

My personal feeling is that the competition is here to stay and that rather than try to discourage it we should devote our best efforts to determining what are the essentials of a satisfactory competition, setting them forth simply and clearly, and helping to make every competition conform to these essential requirements. An effort to aid those wishing to hold proper competitions was the preparation by a committee of the New York Chapter, some years ago, of a standard form of Competition Program, later adopted with slight modifications by the Institute and published as Institute Document No. 115. I am inclined, however, to believe that many architects are unaware that this form exists and can be procured from the Institute office in Washington.

It is perhaps well to consider just what are the competition requirements of the Institute. Stripped of verbiage and reduced to their simplest expression they are four in number and four only, as follows:

1. That the competition be in one of two forms approved by the Institute, either limited or open, and if of the latter type that it be held in two stages.

2. That there be a professional adviser.

3. That there be on the jury a practicing architect, preferably more than one.

4. That the program contain a contract for architect's services in accord with good practice.

The first of these requirements, as it relates to the open type of competition, was incorporated in the Code to protect the owner against the possibility of the competition being won by a clever architect who was without the necessary experience to enable him to carry out the work under consideration. It would not appear that any owner had ever expressed gratitude to the Institute for its

solicitude and the two-stage form of open competition has appeared to be so cumbersome, and in many cases so unnecessary that the Committee on Competitions will recommend to the Convention that this requirement be stricken out.

The proposed revision of the code will set forth the advantages and disadvantages of the various types of competition, but will offer no obstacle to the owner, should he decide to hold an open competition in one stage. Incidentally, the change proposed would permit the approval by the Chapter Sub-Committee on Competitions, which may only approve a program in strict accordance with the Code, of programs such as are

Competitions are largely favored by the profession and it is therefore necessary that the method of carrying them to successful conclusion should be simple and clearly set forth. In this article, Mr. Butler has made certain suggestions as to the regulation of competitions that are worth thoughtful consideration.

being issued by many magazines and materialmen, in which the incentive is a money prize only, and where there would obviously be no possible object in holding the competition in two stages.

The second requirement of the Institute is that there be a professional adviser who should be an architect of high standing.

It seems hardly necessary to set forth in detail the services rendered by the adviser, but it is worth while to refer to some of these. An architect is better equipped than a layman to draft a program and put it in technical language and can also see to it that each competitor receives exactly the same information, and that all are treated with exact fairness.

A discussion with the Committee for a Masonic

Temple near New York was most enlightening in this connection. The Committee had invited a number of competitors and then realized that some of them were entirely lacking in experience. To the writer's query as to why they had been invited it was replied that they were the sons of members of the lodge and they didn't like to refuse to invite them, and that if one of them were successful they thought the best thing to do would be to give him a prize and get rid of him. It took but a moment to make the Committee realize that such a recompense would be no consolation to a competitor who had fairly won a competition, and to make them see the advantage of employing a professional adviser who had no interest in the personal side, and could call on all those wishing to compete to submit the proof of their competency.

The question of communications between the Committee and the competitors, after the issuing of the program, also came up, and it was explained that the fear of improper information being given was not the primary cause for restricting communications to questions submitted in writing to the adviser and answered by him in identical terms to all competitors, but rather the danger that competitors, if allowed to talk with the members of the Committee, might get the wrong idea of the requirements of the building. To cite an example, the ablest competitor among those invited might be a friend of the least well informed member of the Committee, and if allowed to talk with him during the preparation of his drawings he might be wasting his time and ability on an utterly false solution of the problem.

When the reason for this restriction has been explained to a committee of laymen, which is usually intensely interested in the proposed building, anxious to give all the competitors an even chance, and at the same time to secure from them the best of which they are capable, the requirement that they refrain from communication with competitors, which they might have considered a reflection on their honesty, becomes thoroughly understandable and unobjectionable.

The third requirement is that there be one, preferably more than one, practicing architect on the jury.

This requirement has given rise to endless misstatements. Often it has been stated by committees that they could not adopt the Institute requirements because they did not feel that they should be forced to delegate their powers to a jury of architects, or because they did not feel that they should let the architects outnumber them on the jury.

The Institute makes no such requirement. All it asks is that there be at least one practicing architect on the jury. Here again it is easy to show a layman how essential it is that the jury include a man with technical training, to guide the lay members and to prevent their being carried away by a clever bit of rendering, or by a design manifestly

out of character, or beyond the limit of cost established for the building.

A layman will appreciate these points if we take the trouble to explain them, as he will also understand why we prefer that the adviser should not serve as a voting member of the jury, since in the course of preparing the program he may have worked out a solution of the problem which he is likely to consider the best. Even in this detail, however, the Institute lays down no hard and fast rule, and the adviser may be the one architect member of the jury.

It is difficult to conceive of any requirements less severe than these, yet they are continually twisted and made to appear difficult in the manner mentioned above.

It has even been suggested that on occasions some of our confreres outside the Institute, seeing the chance to eliminate Institute competitors, are unable to resist the temptation to paint our requirements in such black colors that the average building committee will decline to consider them.

The fourth and final requirement, that the program contain a definite contract covering the architectural services to be rendered by the winner, is so obviously essential that it hardly seems worth discussing; certainly no business man will hesitate to subscribe to it. It should be noted that the Institute makes no stipulation as to the fee to be paid the winner, merely insisting that it should be in accord with good practice.

The statement in the Code that no program may be approved by a Chapter Sub-Committee, unless it "specifically sets forth the nature of expert engineering services for which the architect will be reimbursed," has given rise to much discussion. No one seems to agree on just what is meant, some insisting that this means that the owner must reimburse the architect in full for fees of consulting engineers in addition to paying the architect the full fee for the work covered by the engineer's services, a payment which is certainly not in accord with general practice, while others hold that the intent of this paragraph is merely to make clear whether or not and for what particular services the architect is to be reimbursed the amount of consulting engineer's fees. It would certainly seem illogical, when the Institute has left open the amount of the fee to be paid the successful architect, to lay down a fixed rule as to his reimbursement by the owner in the matter of engineer's fees. This is a question which it is hoped to clarify in the proposed revision of the Circular of Advice.

The claim is frequently made that the Institute insists that in a limited competition each competitor must be paid; this is absolutely untrue, for while the Circular states that they should be paid for their services, it does not make such payment a prerequisite of approval of a program.

In the revised draft now being prepared, an effort is made to explain to the owner why, if he

proposes to hold a competition, it is to his interest to keep down the number of those invited and to pay them in the case of a limited competition, and to offer prizes in the case of an open competition; not to treat these questions as matters of professional ethics which he must accept on faith, but as merely questions of good business and common sense to be considered both from his own and from the competitors' point of view.

From the foregoing it would not appear that the Institute requirements for competitions vary to any great extent from what any reasonable business man would demand before risking his time and money, and if the suggested changes are carried out they will be even further simplified.

It hardly seems too much to ask of those who in joining the Institute have agreed to abide by its rules that they take the trouble to learn what those

rules are; if they do that, we shall hear less often the old refrain of the prospective competitor addressing the owner about to hold a competition: "Of course I should be very willing to go into your competition on the terms you propose, but you know the Institute won't let me."

If, rather, Institute members would have the courage to say to clients that our requirements are only what they themselves as business men would demand under similar circumstances, we would find increasing respect for the profession and a gradual disappearance of the feeling that an architect is a member of a sort of trades union whose rules he does not respect, but is afraid to break, and that in general he has but slight respect for the value of his own services, since he is willing to risk his time and money for any sort of glittering bait which a client chooses to dangle before him.

URBS IN RURE

ONE of the tendencies of recent years which have given students of social and economic problems some concern has been the spreading out of the cities into the neighboring suburbs and the repetition there of some of the more serious evils that prevail in the great centers of population, states *Housing Betterment*.

This has been notably illustrated in New York in recent years with the trend toward the erection of tall suburban apartment houses repeating in the suburbs practically the conditions that are to be found in the most congested parts of Manhattan, and which the dwellers in the suburbs have moved out to escape.

It is, of course, natural that, as cities increase in size, the population should be pushed out to the fringes of those cities, and even beyond; but it is entirely an unnatural development to repeat in those suburban and rural communities the hideous monstrosities which prevail in the great cities, and which unfortunately have become a terrible necessity in those centers of population. These are not at all a necessity in the suburbs, but merely represent greed and the desire of a few property owners to obtain an undue profit and return from the use of their land—a tendency which if left unchecked will produce in those communities, which are today attractive suburban sections of the country, the same unduly high land values, the same necessity for building intensively that are to be found in the great cities.

These tendencies have become very manifest in the suburbs of New York in recent years. Apartment houses are not only pushing out on Long Island, in Forest Hills and Kew Gardens, but in many other communities.

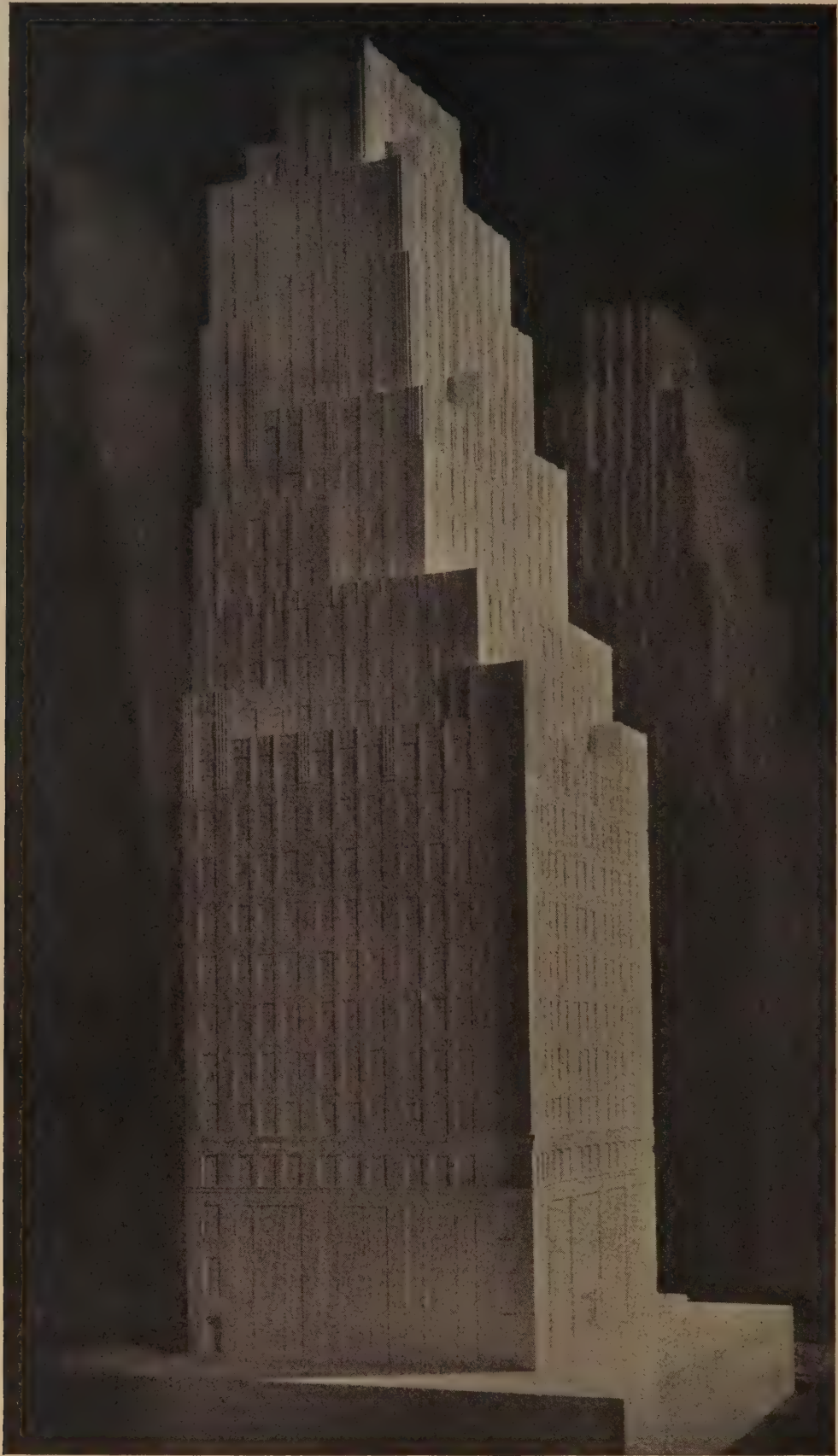
Westchester County, that most delightful suburban district to the north of New York City, is

now showing an even greater tendency in this direction. One of the first developments of this kind was to be found at Bronxville, but here owing to the intelligence and skill of the developer a very attractive apartment house was erected not possessing the disadvantages and evils of the ordinary apartment house in the suburbs. The success of this development and the desire of people for the conveniences of apartment living with the pleasant atmosphere that is to be found in suburban communities have led speculative builders to erect other apartment houses with the results that communities which a few years ago were strictly suburban communities are now rapidly being invaded by these vast hives.

This is quite noticeable in such communities as Mount Vernon, Bronxville and White Plains—and even Pelham and Scarsdale are beginning to feel the blight.

Zoning should be a shield against such destruction of property values and of residential communities; but it can only so act, however, where the residents of such communities are alert and vigilant and determined to protect themselves in the enjoyment of the peace and quietness of a residential district.

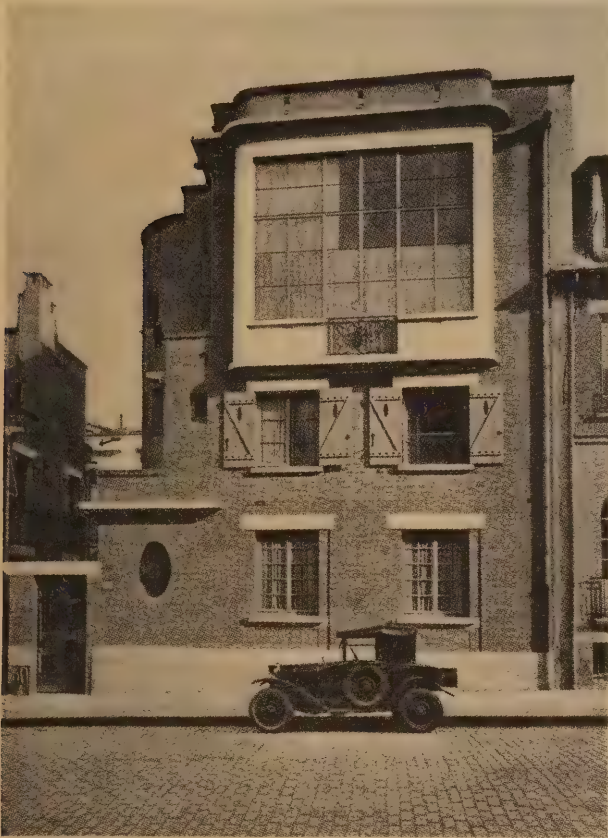
The necessity of such protection by means of zoning has recently been illustrated in the case of the town of Pelham, which heretofore has been a most attractive residential suburb. Recently the apartment house tendency has become manifest and a zoning ordinance enacted some years ago sought to preserve the existing residential districts. In recent litigation, however, a decision has been handed down by the Supreme Court for that district, holding that the zoning law which prohibits the building of apartment houses in a private residence district is invalid.



THE JOHN STREET (NEW YORK) INSURANCE CENTER

BUCHMAN & KAHN, ARCHITECTS

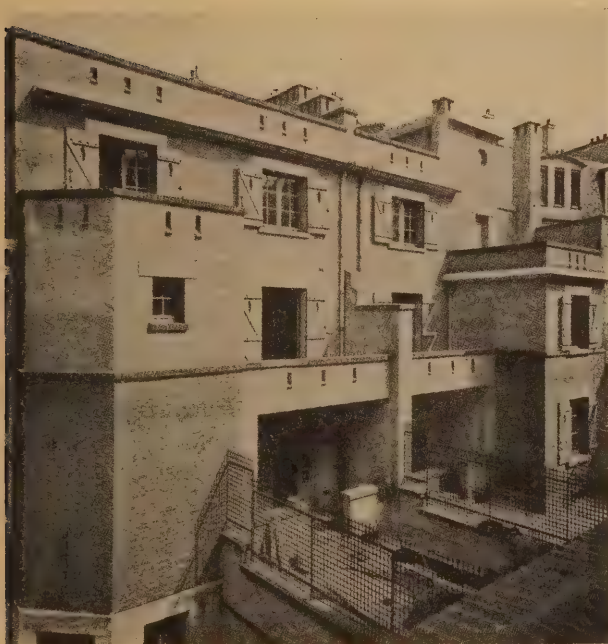
(Photograph of the model)



1. FRONT VIEW, APARTMENT A



2. FRONT AND SIDE VIEW, APARTMENT A



3. REAR VIEW, APARTMENTS B AND C



4. FRONT VIEW, APARTMENTS B AND C

PLATES 1 AND 2, SHOWING APARTMENT A, REPRESENT THE PRINCIPAL FACADES FACING THE STREETS. PLATE 1 SHOWS THE BUILDING ERECTED PARALLEL TO THE PASSAGE WHICH GIVES ENTRANCE TO PEDESTRIANS, WHILE IN PLATE 2 THE GARAGE ENTRANCE IS SHOWN. PLATE 4 SHOWS THE PRINCIPAL FACADE OF B AND C. THERE IS A PORTE COCHERE FOR THE MAIN ENTRANCE TO THESE APARTMENTS AND A DOOR FOR SERVICE. PLATE 3 SHOWS THE FACADE IN BACK OF B AND C

APARTMENT HOUSES AT AUTEUIL, FRANCE—M. ADOLPHE THIERS, ARCHITECT



5. REAR VIEW, APARTMENTS D AND E



6. REAR VIEW, APARTMENT D



7. FRONT VIEW, APARTMENT D



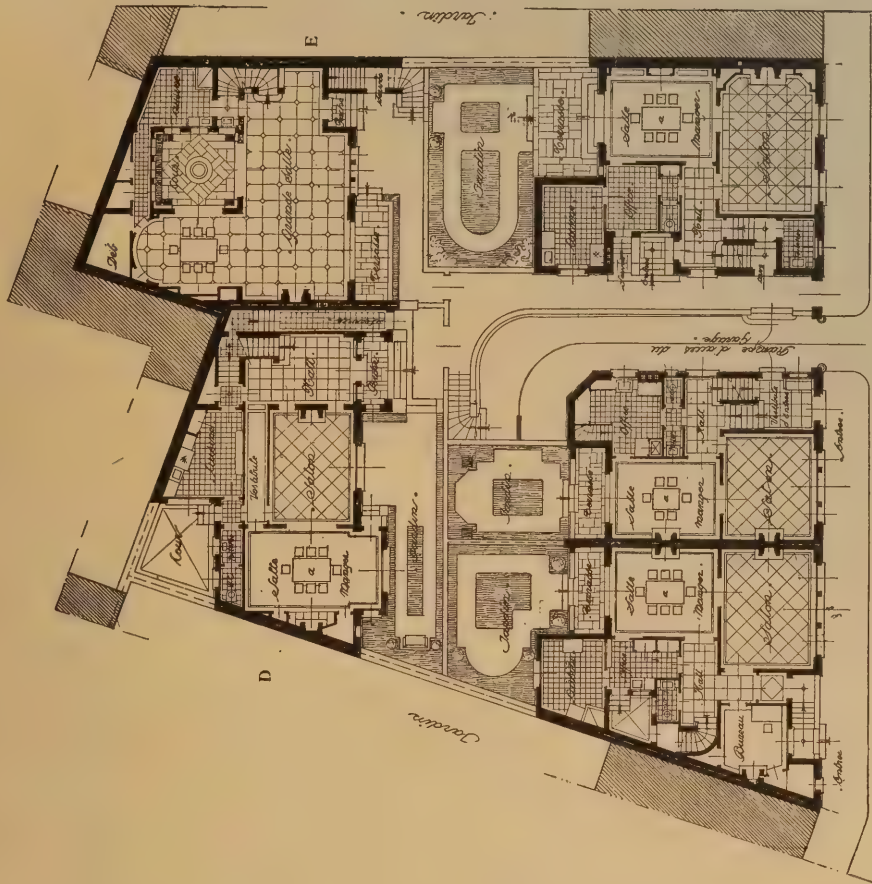
8. REAR VIEW, APARTMENT A

PLATE 7 PRESENTS THE WHOLE OF THE FACADE OF D, WHILE PLATE 5 SHOWS THE DETAIL OF THE RIGHT SECTION OF THE FACADE WHICH ENDS BY A VERANDA, BEYOND WHICH CAN BE SEEN TO THE RIGHT THE FACADE OF E. PLATE 8 IS A REAR VIEW OF APARTMENT A, SHOWN IN PLATES 1 AND 2. THE SIMPLICITY AND GOOD TASTE OF ALL OF THESE FACADES ARE APPARENT AND REFLECT THE SKILL OF THE ARCHITECT IN HANDLING A DIFFICULT PROBLEM

APARTMENT HOUSES AT AUTEUIL, FRANCE—M. ADOLPHE THIERS, ARCHITECT



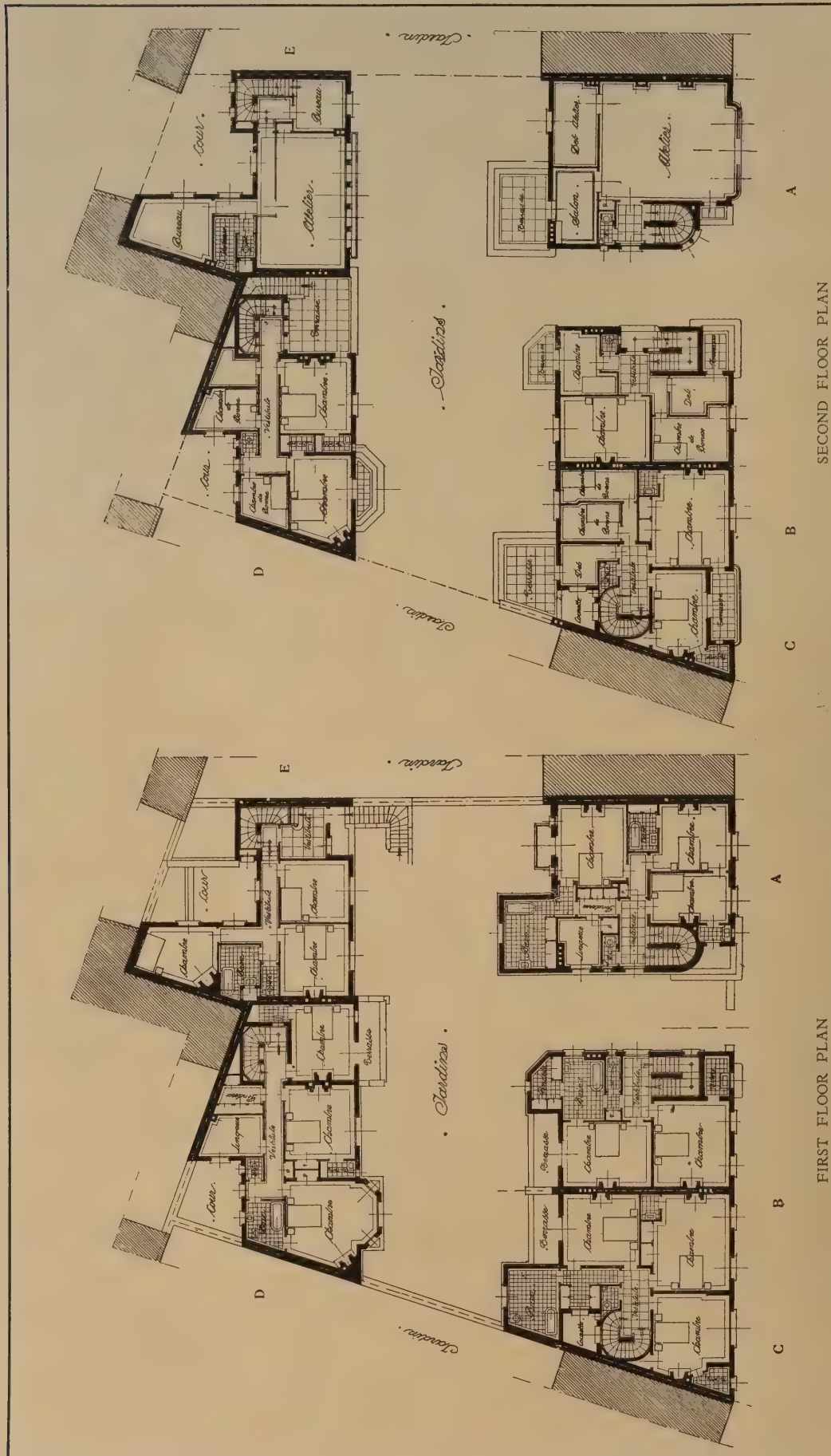
BASEMENT PLAN



GROUND FLOOR PLAN

It is interesting to note by careful study of these plans how very radically the French people are changing their mode of living. The basement plan shows the location of the garage. From this floor the higher level is reached by a ramp as shown. On this terrace are the gardens of houses B, C and D. To give the true rustic effect, lattice screens have been introduced, providing a trellage for thick vegetation. Comparison of the basement plan with that of the ground floor shows the arrangement of the gardens over the garage

APARTMENT HOUSES AT AUTEUIL, FRANCE—M. ADOLPHE THIERS, ARCHITECT



The site selected for these apartments was extremely irregular in surface, and the land comparatively high in price. The architect has worked out his plans and made the best of existing conditions in a most commendable manner

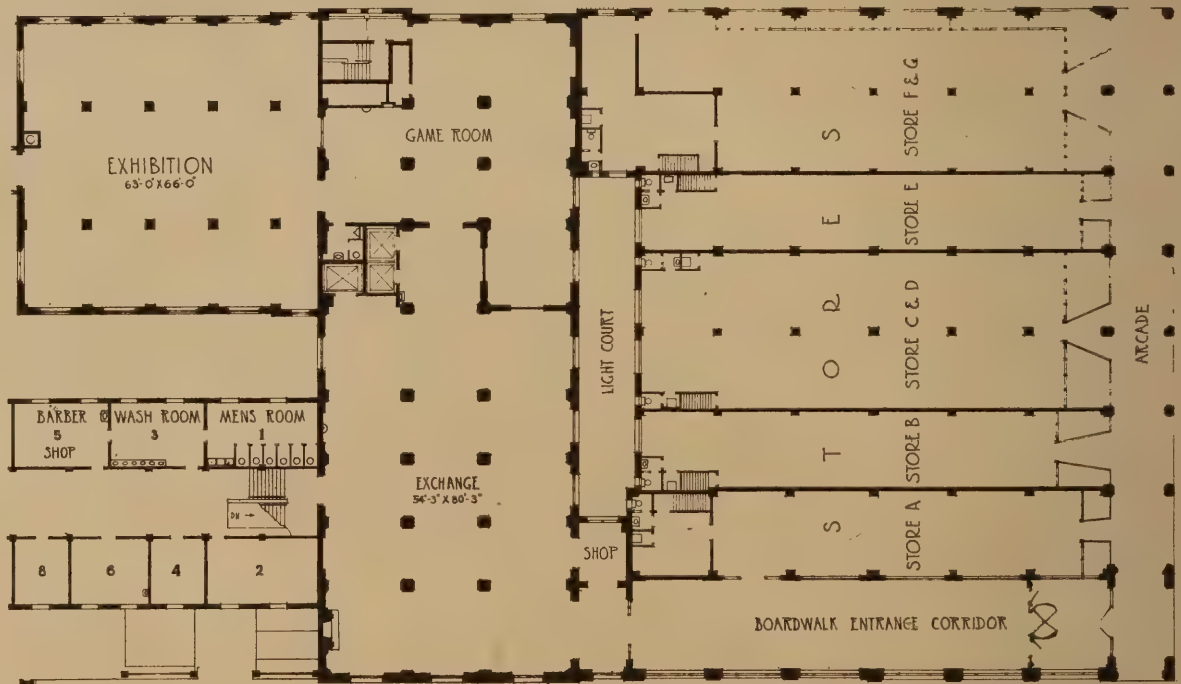
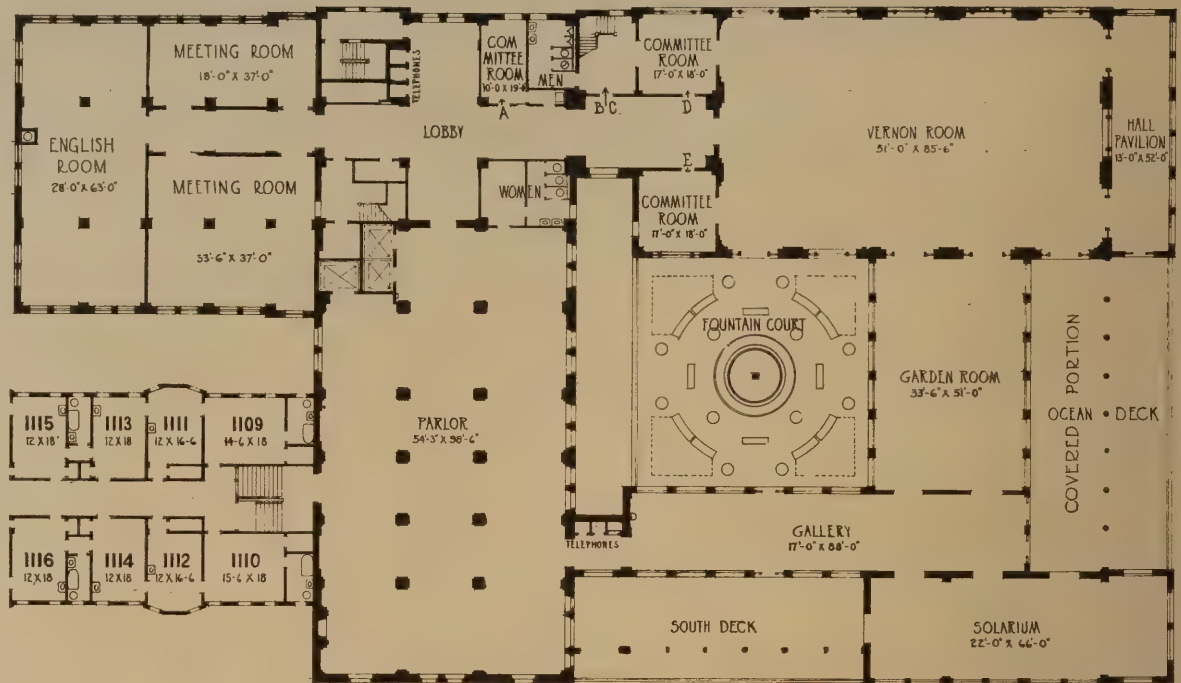
APARTMENT HOUSES AT AUTEUIL, FRANCE—M. ADOLPHE THIERS, ARCHITECT



HADDON HALL, ATLANTIC CITY, N. J.

RANKIN, KELLOGG & CRANE, ARCHITECTS

THE ORIGINAL HOTEL BUILDING, A WOOD-FRAMED STRUCTURE, IS GRADUALLY BEING REPLACED BY A MODERN FIREPROOF HOTEL,
OF WHICH THE ABOVE IS THE FIRST COMPLETED UNIT
(See plans on back)



HADDON HALL, ATLANTIC CITY, N. J.

RANKIN, KELLOGG & CRANE, ARCHITECTS



CORNICE DETAIL, HADDON HALL, ATLANTIC CITY, N. J.



HADDON HALL, ATLANTIC CITY, N. J., AS IT WILL APPEAR WHEN COMPLETED

RANKIN, KELLOGG & CRANE, ARCHITECTS

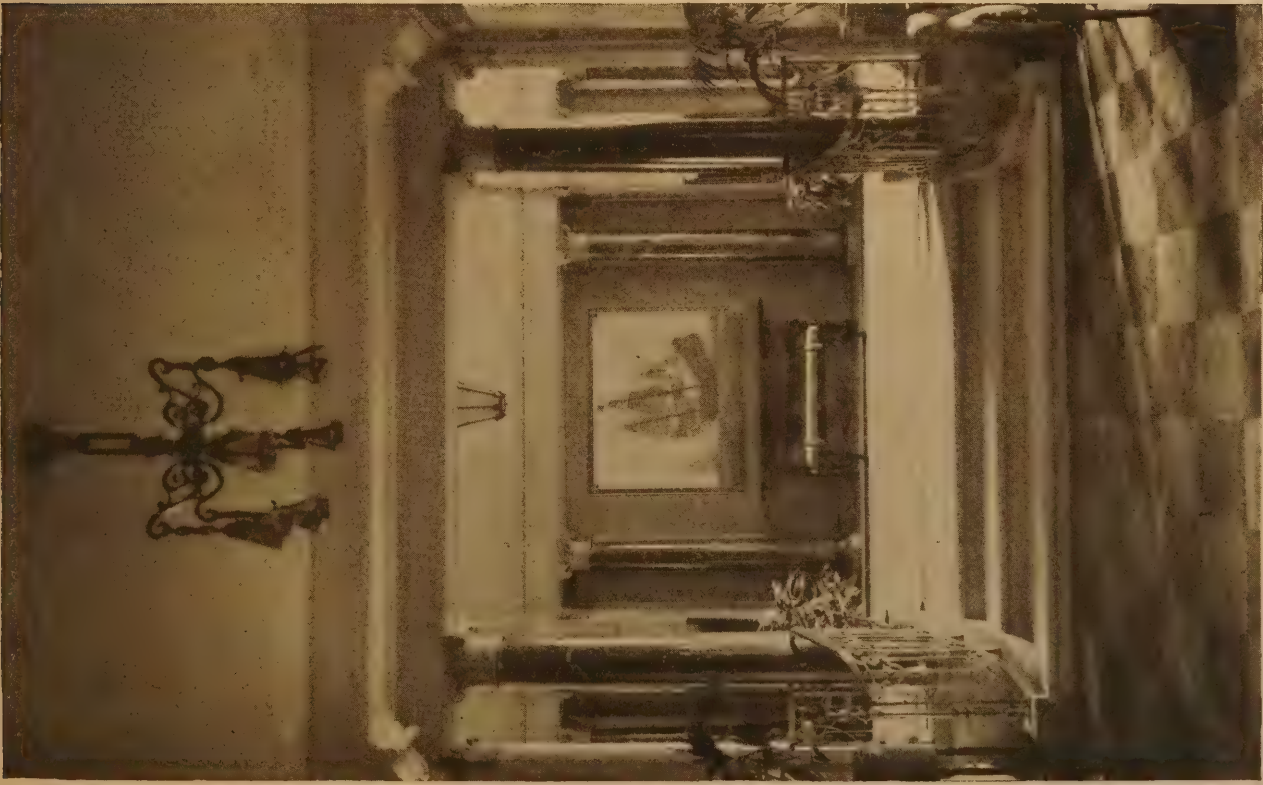


"VERNON" ROOM



GARDEN ROOM
HADDON HALL, ATLANTIC CITY, N. J.

RANKIN, KELLOGG & CRANE, ARCHITECTS

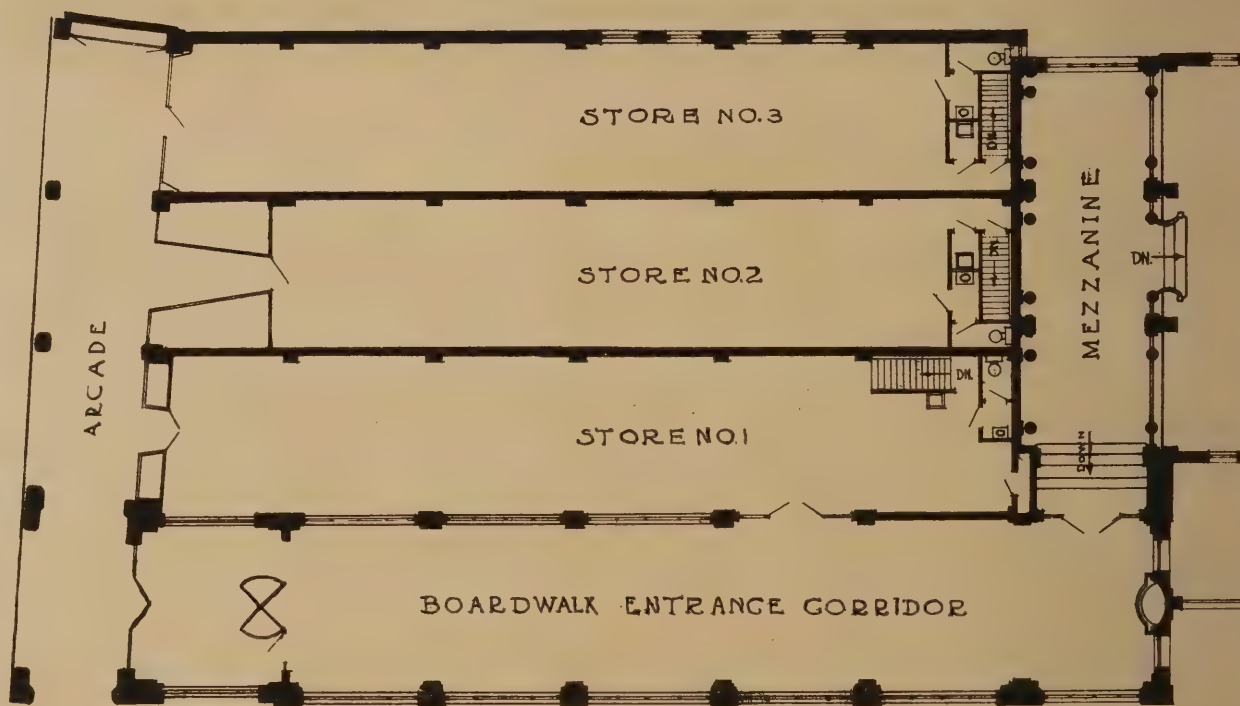
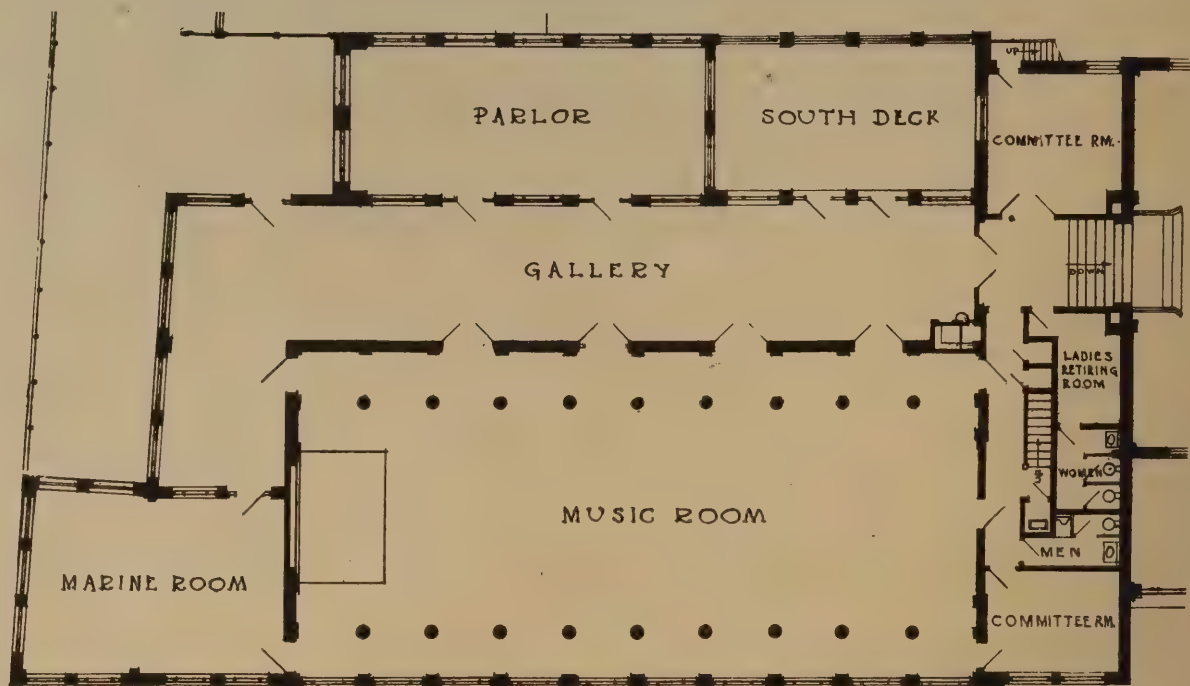


CONNECTION BETWEEN OLD HOTEL AND NEW CORRIDOR
TO BOARDWALK, THE CHALFONTE, ATLANTIC CITY, N. J.

RANKIN, KELLOGG & CRANE, ARCHITECTS
(See plans on back)



STORE ARCADE
HADDON HALL, ATLANTIC CITY, N. J.



THE CHALFONTE, ATLANTIC CITY, N. J.

RANKIN, KELLOGG & CRANE, ARCHITECTS



MUSIC ROOM

The hotel proper is of modern fireproof construction with stores of wood-framed construction between it and the boardwalk. This wooden portion has been replaced by a two-story structure identical with that of the corresponding portion of Haddon Hall, on the opposite corner, forming an appropriate balancing unit. The first, or street, floor contains stores and an entrance to the hotel from the boardwalk. The second floor is given over to sun decks, parlor and music room.

THE CHALFONTE, ATLANTIC CITY, N. J.

RANKIN, KELLOGG & CRANE, ARCHITECTS

THE AMERICAN ARCHITECT
April 20, 1926 PLATE 78



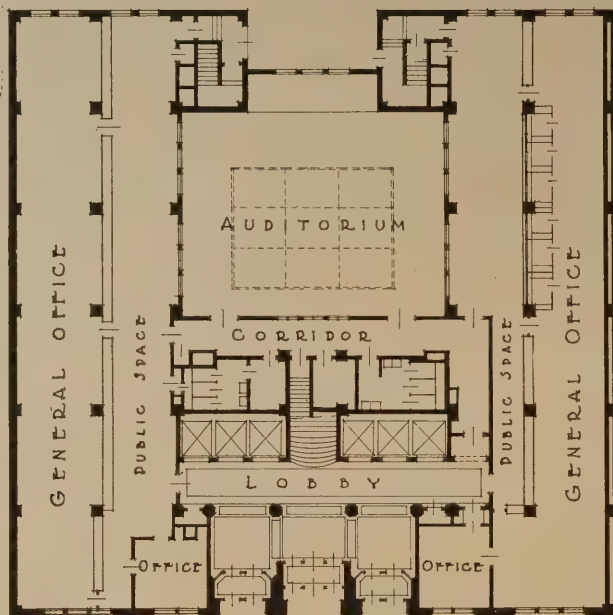
NEW ENTRANCE CORRIDOR TO BOARDWALK



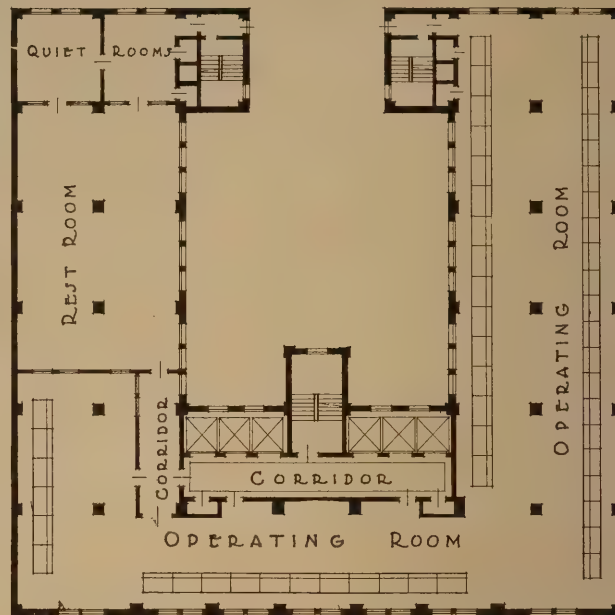
WISCONSIN TELEPHONE BUILDING, MILWAUKEE, WIS.

ESCHWEILER & ESCHWEILER, ARCHITECTS

(See plans on back)



FIRST FLOOR PLAN



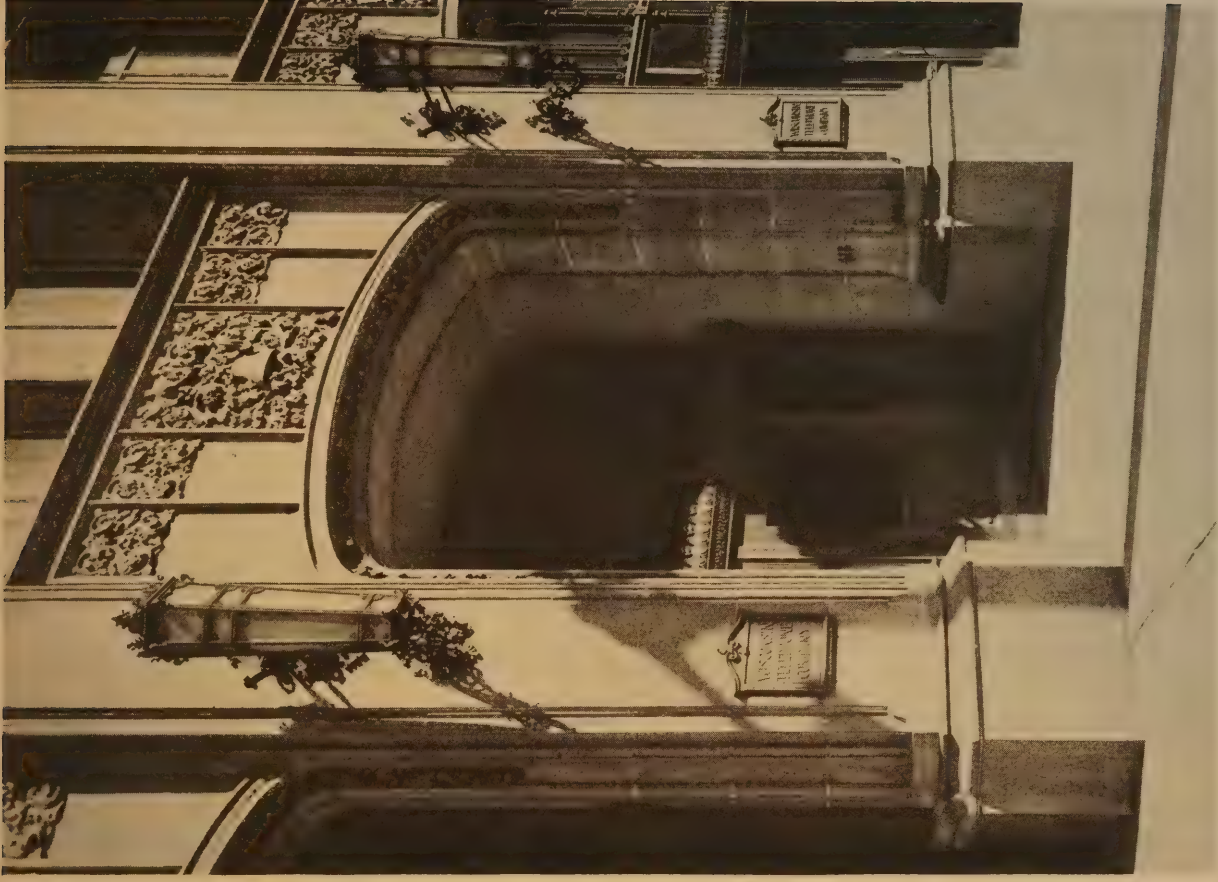
THIRD FLOOR PLAN



TYPICAL FLOOR PLAN

WISCONSIN TELEPHONE BUILDING,
MILWAUKEE, WIS.

ESCHWEILER & ESCHWEILER, ARCHITECTS



WISCONSIN TELEPHONE BUILDING, MILWAUKEE, WIS.

ESCHWEILER & ESCHWEILER, ARCHITECTS



THE AMERICAN ARCHITECT
April 20, 1926 PLATE 80

INTERIOR ARCHITECTURE

SCRAPPING AN ARCHITECTURAL MASTERPIECE

WITH the passing of the William K. Vanderbilt house at Fifth Avenue and Fifty-second Street, New York, not alone the city but also the entire country loses another milestone by which the progress and development in architecture might be traced and recorded. Built in the early 80's, it has stood as one of the finest examples of residential architecture of the period. Moreover, it has been accepted since its completion as a masterpiece of Richard Morris Hunt, the leading architect of his time in this country, and its value is thereby increased. The city loses, both artistically and economically, by the demolition of this stately resi-

dence. It would seem at first thought to be possible to ward off such wholesale destruction of our architectural heritage as we have witnessed during the last year or two. Fifty years, today, is a long life for the average city building. And at the present rate that buildings are being razed to make room for more modern structures, the future will have no record whatever of the past, and its heritage will be forgotten in a maze of modern construction. Yet, as we study the facts surrounding the scrapping of the Vanderbilt house, we may with reason ask the question, Could it be otherwise? Could its preservation actually be justified?



THE WILLIAM K. VANDERBILT HOUSE AT FIFTH AVENUE AND FIFTY-SECOND STREET, NEW YORK, NOW BEING DEMOLISHED

RICHARD MORRIS HUNT, ARCHITECT

Topographically, New York City is unfortunately situated. Its phenomenal growth during the last fifty years has been allowed to expand in only one direction, namely, northward (besides upward toward the sky, which has been taken full advantage of). The "uptown" movement of business has lately brought Forty-second Street, and even Fifty-ninth Street, "downtown," just as in the not far distant past City Hall was brought within reach of Bowling Green and Fourteenth Street was made a business thoroughfare. Surrounded, then, on every side by commercial and business structures, it is inconceivable that this chateau-like residence would serve any good purpose by occupying ground which would be of so much greater value to industry. So the residential section is pushed still further "uptown," to await that time when business will make it impossible for the so-called city house to exist anywhere on Manhattan Island. In fact, the newer tendencies of domestic life are all away from that type and toward apartment houses, and, for the class that is represented in this Vanderbilt house, to the more exclusive and restricted apartments. It will, therefore, be but a few years when the owners of these fine dwellings, the number of which is so fast

diminishing, would not care to be surrounded by the bustle and activities of trade and would seek, as so many already have, some quieter dwelling place. We may regret the passing of this masterpiece of Hunt, but the causes that lead to its passing are as irresistible as the commercial spirit that is reducing even our fine architecture to a simple matter of dollars and cents.

Perhaps the one and biggest obstacle in the way of architectural preservation in this city is the lack of a definite city plan. Realizing fully the conditions which later will confront us, for this scrapping of a fine example of architecture of a past generation is not by any means a novel situation in the life of this city, we have made no allowances for the future. The success which has been attained in the development of Washington, D. C., has been due in no small measure to strict adherence to the city plan as devised by the French engineer, L'Enfant, and accepted by the Federal government. A city plan has already been adopted by Detroit by which its future growth will be guided, and plans have likewise been promulgated for the city of Buffalo, N. Y., to which its future building will adhere. While, perhaps, it is too late to devise any
(Concluded on page 466)



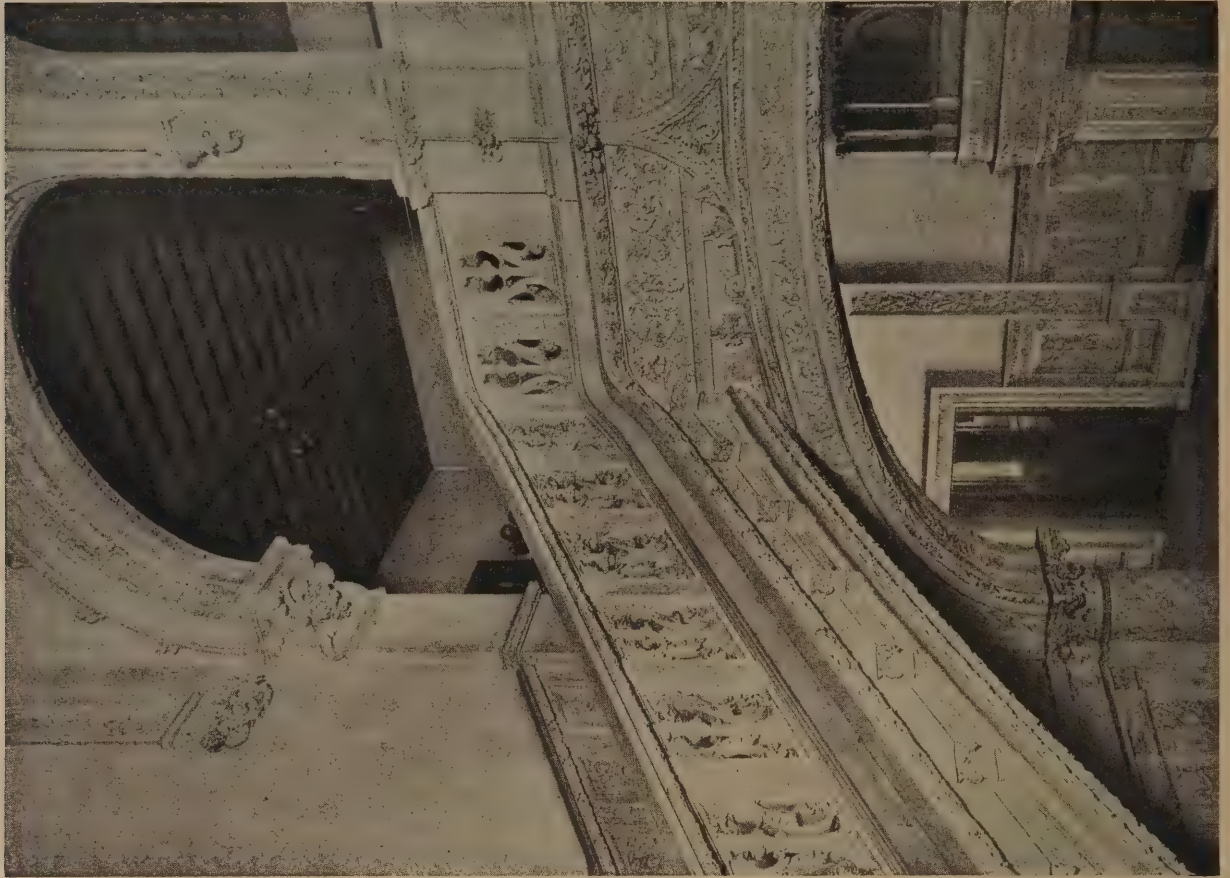
DETAIL OF PANELLING IN THE MAIN HALL



THE GRINLING GIBBONS ROOM, DESIGNED AND EXECUTED IN ACCURATE DETAIL



THE MAIN HALL, LOOKING TOWARD THE FIFTH AVENUE ENTRANCE



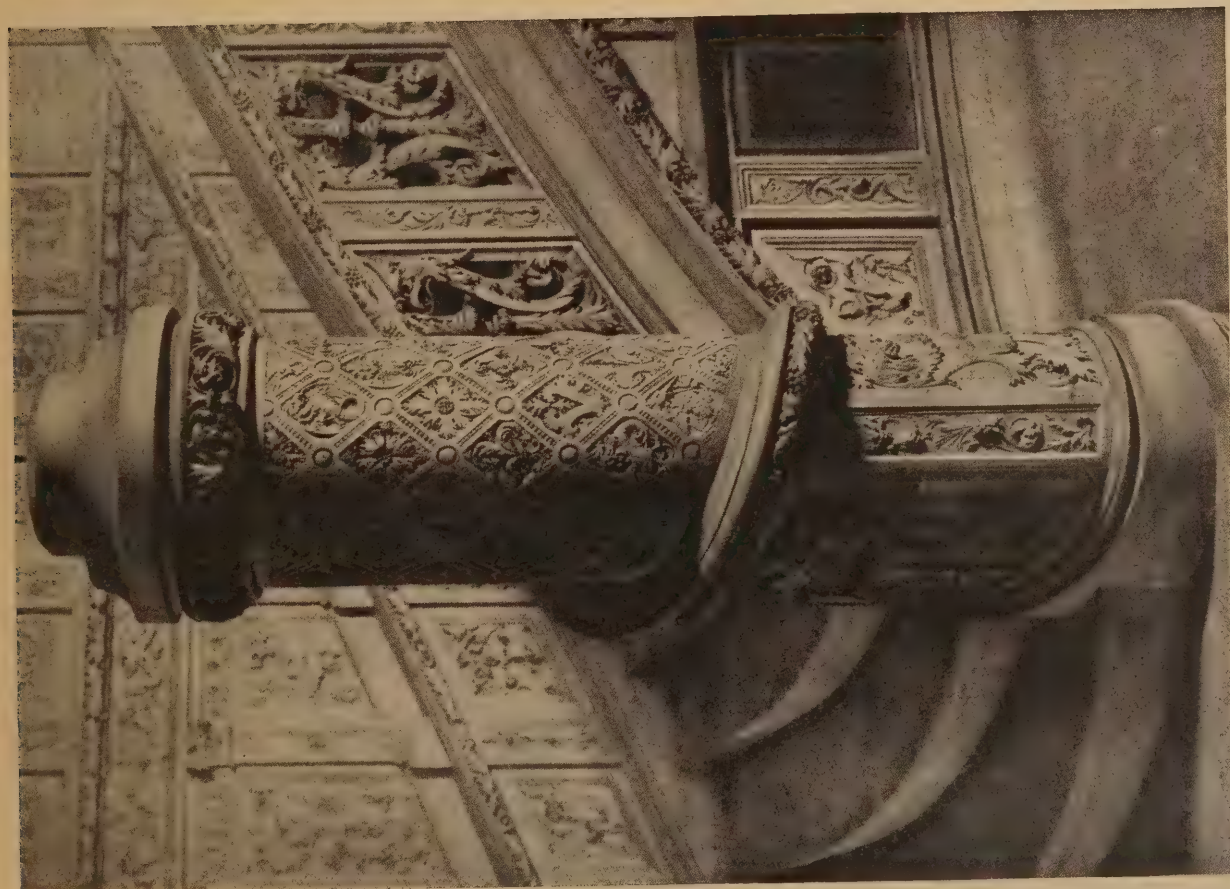
PORTION OF THE GRAND STAIRWAY



STONE FIREPLACE IN MAIN HALL



DETAIL IN SUPPER ROOM ON THIRD FLOOR



DETAIL OF STAIRCASE ON FIRST FLOOR



DETAIL OF WALL PANELLING ON MAIN STAIRCASE



DINING HALL, WITH ITS TWO FIREPLACES AND ELABORATELY CARVED CEILING

(Continued from page 460)

rigidly determined plan for New York, the new zoning laws have accomplished the next best thing, by preparing for a unification of building which will begin to bear fruit in the next generation if it has not already done so in this. It may be consolation to us, then, as we stand and view this masterpiece of architecture razed, to know that while we lose, and lose tremendously, on the one hand, we really gain on the other.

In expressing regret over the passing of this notable building, we are led to dwell on just what the attitude of the American people would be if English collectors or "amateurs of art" endeavored to purchase it for transportation and re-erection in England. We believe that we would much prefer to see the reinstatement of all the marvelous detail that made this house an artistic gem in the homes of our *nouveau riche*, and the building razed and used for second-hand materials, than that it should be taken to some other country.

It is easy with these thoughts in mind to understand the feelings of our English cousins when they see their cherished old buildings and their interiors brought to furbish the houses of the American millionaire. We can more readily understand, by better appreciating their point of view, why a bill was recently introduced in the House of Commons, which was explained in detail in an editorial in a recent issue of THE AMERICAN ARCHITECT, prohibiting the exportation from England of certain

works of art and ancient or historical buildings. The Vanderbilt house marked an epoch in progress in architecture in New York City. Once removed from its original site and surroundings where the traditions which led to its design and erection can be traced, it loses its historical significance to a very great extent. But it never loses its Americanism, and that can best be perpetuated by reinstatement in this country.

The illustrations to this article are reproductions of plates in "A Monograph of the William K. Vanderbilt House," and acknowledgment is made to the author of that publication, John V. Van Pelt, himself an architect, for his courtesy in granting THE AMERICAN ARCHITECT permission for their reproduction.

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TAPESTRY PRIZES AWARDED

WINNING designs selected in the art contest conducted by the International Art Center for the Alfred C. Bossom Co-operation in Art prizes were recently announced. The contest was for a modern tapestry design based on the art forms of primitive America. The first prize of \$100 was awarded to A. W. Anderson, of Orange, Calif.; the second prize to E. Guion Thompson, of New York, and the third prize to Mildred Godfrey, of the University of California. Judges for the contest included Harvey W. Corbett, Stepan de Kosenko and Howard Greenley.



DETAIL OF BAY ON FIFTY-SECOND STREET FRONT, WILLIAM K. VANDERBILT HOUSE, NEW YORK



THE STEEL FRAMED HOUSE

By JOHN CARROLL BRÖDERICK, CONSULTING ARCHITECT

The system of construction developed and designed by Mr. Broderick and described in this article has recently been demonstrated in a model residence at Tarrytown, New York. Various obstacles which have prevented any serious attempt to make use of the steel frame in housing projects have apparently been overcome through the ingenuity of the author of this system.—THE EDITORS.

THE development of a flexible system of steel frame construction for houses of moderate size was prompted by the desire to build this type of structure, highly fire-resisting, vermin-proof, safe, sanitary, and to secure economy in construction and maintenance costs. Investigation showed that the steel frame for this type of building has rarely been

used and never generally adopted, due largely to the high cost of fabrication and erection. These objections are at once removed when a series of flexible units are used and quantity production secured.

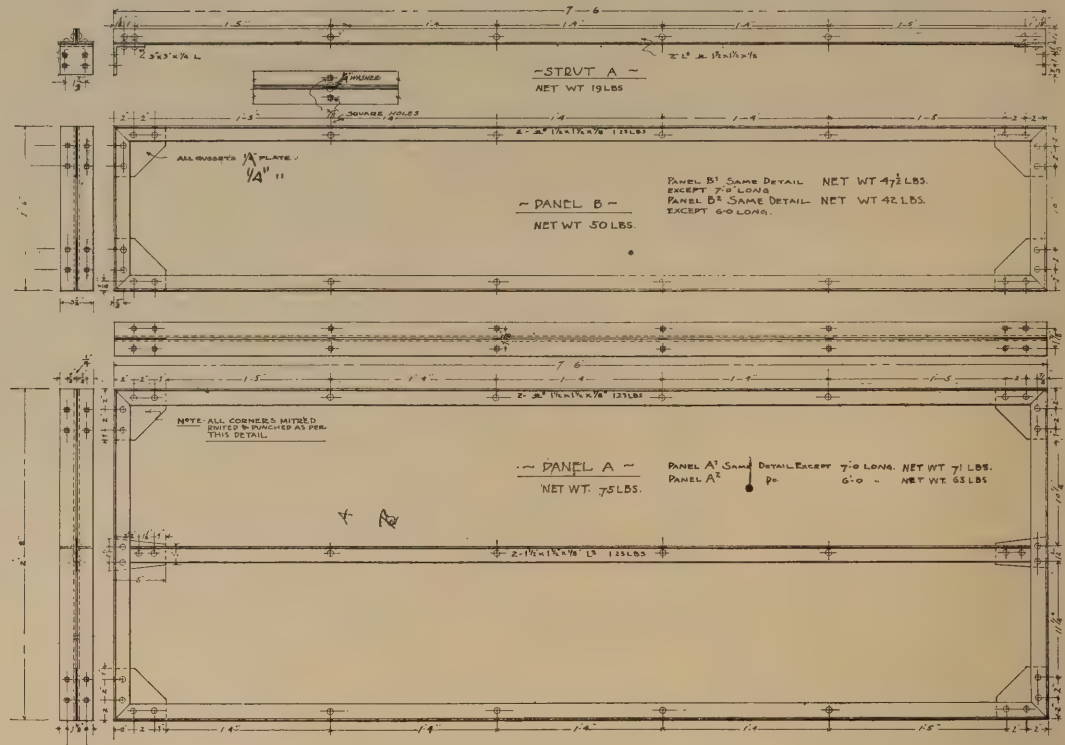
Contrary to the usual conception of this type of frame, it is not necessary to design special connections and units to meet varying conditions, nor does it mean that such houses are limited in architectural design. It does mean a recognition of the physical characteristics of steel and, with units already designed and fabricated, the proper selection and disposition of these units to produce the desired results with economy in labor and materials.

Structural steel as ordinarily used is a material

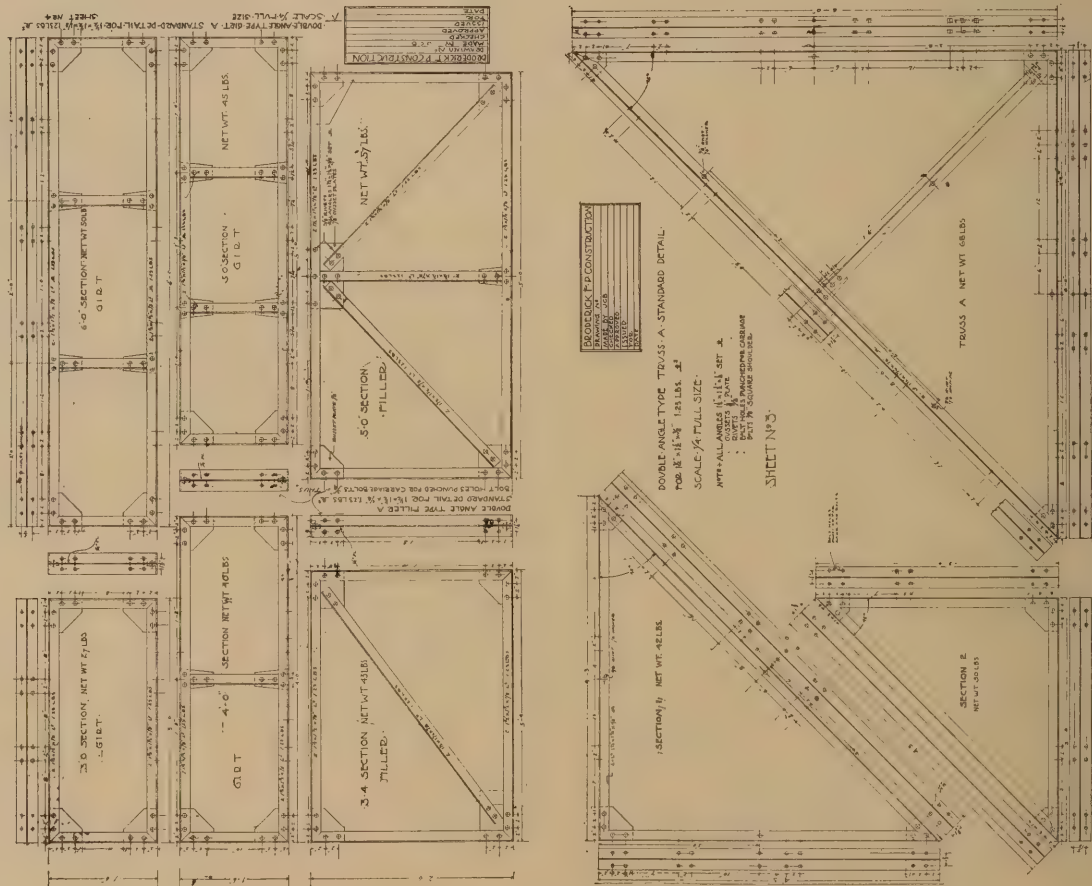


MODEL HOUSE AT TARRYTOWN, N. Y.—A. F. GILBERT, ARCHITECT

WALLS AND ROOF FRAMED WITH STEEL UNIT SYSTEM AND READY FOR ENCLOSING WALLS. THIRTEEN TONS OF STEEL WERE REQUIRED FOR THIS HOUSE. NOTE WORK BEING CARRIED ON UNDER WINTER CONDITIONS



TYPICAL WALL PANEL UNITS
DETAILS OF UNITS IN THE SYSTEM OF STEEL UNIT FIREPROOF CONSTRUCTION USED IN THE TARRYTOWN MODEL HOUSE



requiring some type of erection plant. For small structures with the loads ordinarily encountered in house work, it is never necessary to resort to heavier units or members than can be handled by labor ordinarily employed when houses are built of any other material now commonly employed.

It is essential that foundation walls be built plumb, level and square, since the steel units and connections are thrown out of alignment if such is not the case. Foundation materials can be those ordinarily employed locally—brick, concrete, concrete block or stone.

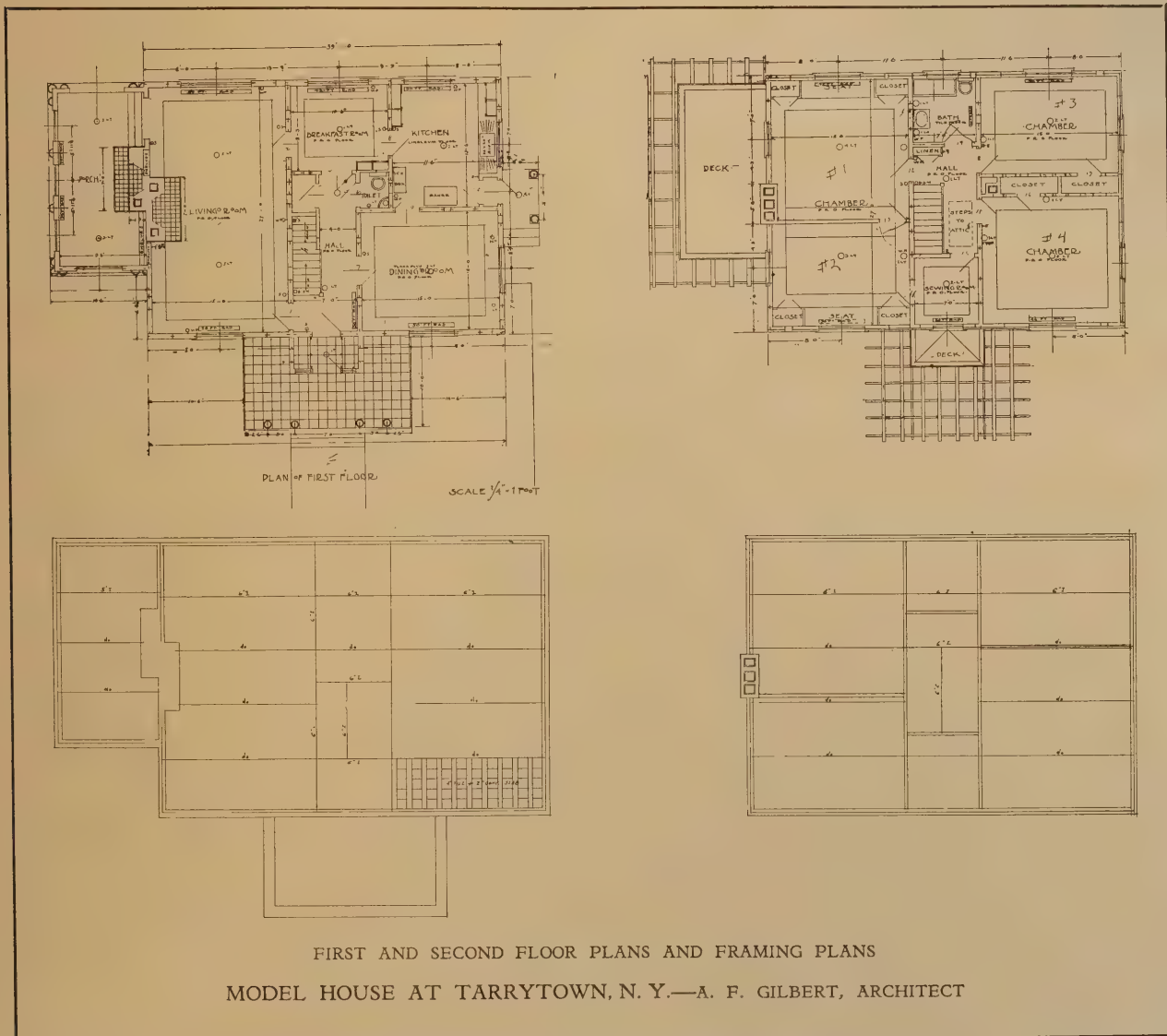
The steel unit system recently developed consists of a series of steel frames formed of standard rolled steel angles riveted together at a fabricating shop and delivered to the job as a unit. The units are light, easily handled, erected and bolted in place. Wall units are made in two standard widths of 16" and 32" and three heights of 6'-0, 7'-0 and 7'-6. The units thus provide steel angle studs spaced in accordance with the usual custom—16" O. C. Where doors and windows require odd spac-

ings of the studs, a combination of the two widths is used, so arranged that no space between studs exceeds 16". Through the selection of units of proper length, and the proper design of the foundation walls, any normal ceiling height can be secured.

The punching in the frames for the bolts is so arranged that each frame will go into position and register with the holes of the adjoining frame. Each side and end are interchangeable and exact in fit. Since the frames are made square, straight and true, it is impossible to erect them except in proper relation to the rest of the structure.

Horizontal units similar in design to the wall panels form girts at the second and attic floor levels. Small units of the same type are used as fillers under window openings.

Floors are framed with light I-beams, girders and columns. Partitions are framed in the same manner as the exterior walls. The roof is framed with light steel trusses made up of triangular units bolted together or steel rafters as required to meet the individual conditions of any particular job.





Floor construction may consist of a reinforced concrete slab, concrete arch over a curved metal form, gypsum slab or a combination of hollow tile and concrete joists. Sleepers are embedded in the concrete to form a nailing for the finished floors.

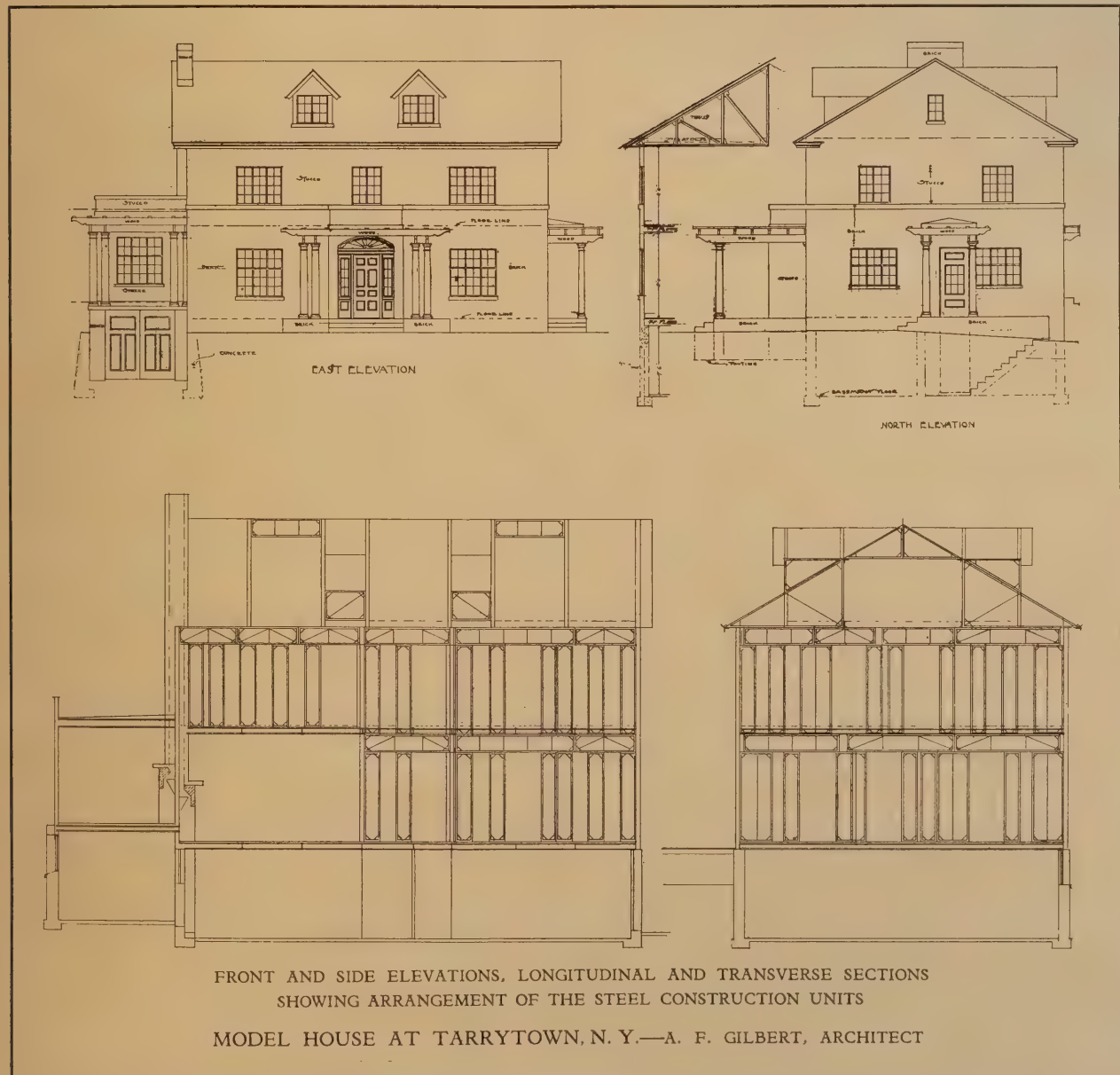
The roof may be built of plank sheathing, gypsum slab, concrete slab or other system of construction supported on the steel members.

The exterior walls may be faced with brick anchored to the steel frame, wooden siding, stucco, stone or any combination of materials desired. Cork or other insulating board secured to the vertical angles of the wall units forms a base upon which to plaster the inside of the exterior walls and adds the advantages of insulation. In the model house built at Tarrytown, N. Y., an insulating filling of gypsum is used. Interior partitions are covered with wire lath and plaster except where it is desirable to use another base for the plaster.

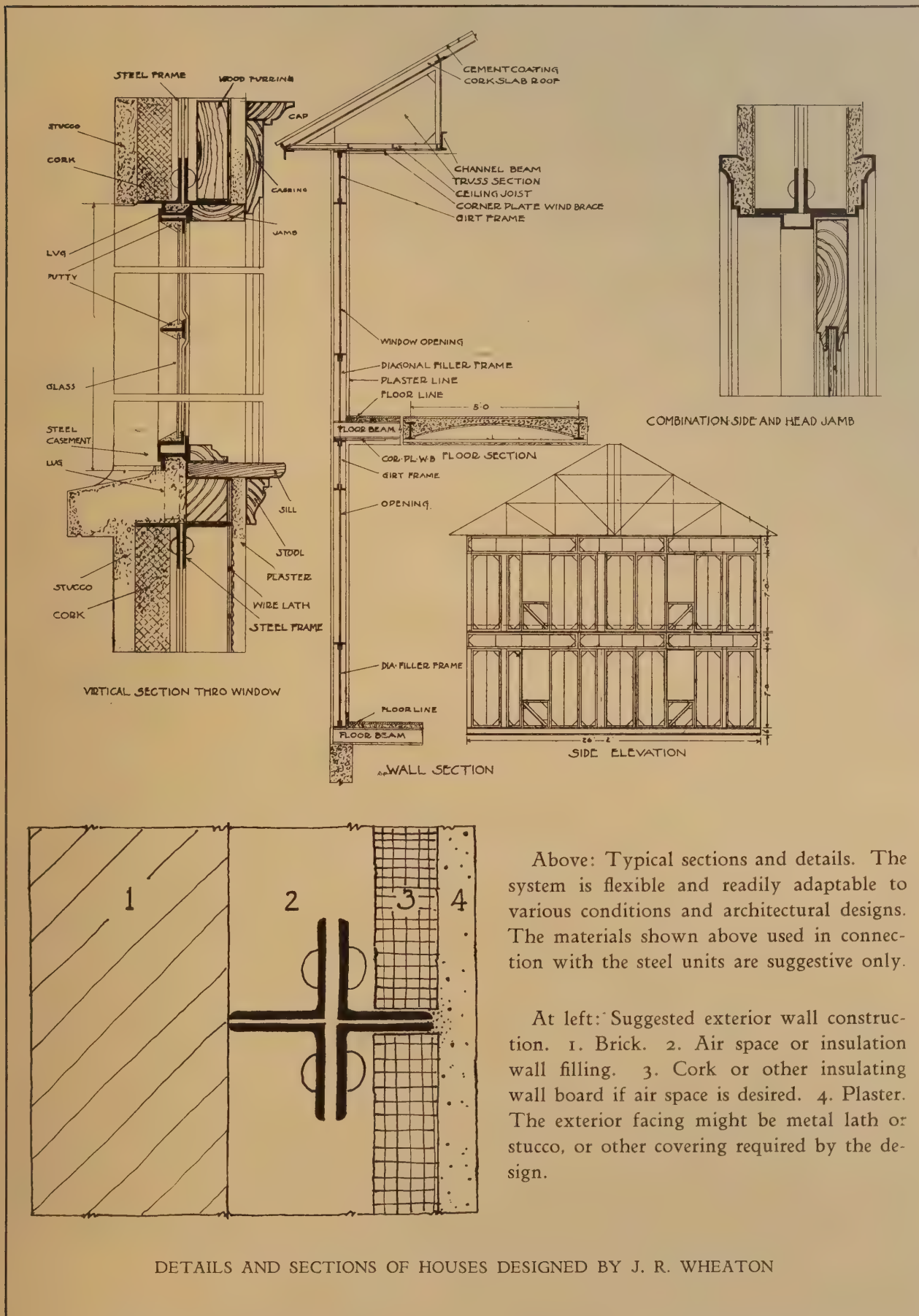
Interior trim may be of wood or metal secured to furring strips attached to the steel frame. Metal casements or counterbalanced sash and metal doors are to be recommended for their fire-resisting qualities as well as other commendable characteristics.

Plumbing and heating pipes cannot be economically concealed within the walls and partitions. When required to be concealed, a furred space can be provided or piping arranged to be concealed within cupboards, book shelves, etc.

The fire-resisting insulated house has numerous advantages, and when modern methods are applied to its construction many economies are effected. A flexible unit system permits the house to conform to any architectural plan or design. Volume production makes what is ordinarily an expensive type of construction an economical one. The building operation is very much simplified. Insulation results in a house warm in winter and cool in sum-







DETAILS AND SECTIONS OF HOUSES DESIGNED BY J. R. WHEATON

mer, and a reduction in size of heating plant with a corresponding reduction in annual heating cost. The fire-resisting qualities procure a reduction in insurance rates. Yearly maintenance becomes negligible and depreciation is very greatly reduced.

A careful and accurate cost account kept during the construction of the model house at Tarrytown, N. Y., demonstrated that the cost of steel unit framed insulated buildings compares favorably with that of wooden frame construction.

In Scotland to meet an emergency housing condition, houses have been built using a wooden frame with steel sheets as an exterior covering. A correspondent stated in the *New York Times*, February 7, 1926, "*** it is an engineering job rather than a building job.*** Everything is standardized; everything that can be prepared by mass production is so prepared, and when the finished material has been carted to the sites selected, it needs little more than unskilled labor to put the

houses up completed within a relatively short time."

A special cable to the *New York Times*, dated February 17, 1926, stated, "*** a French architect, Henri Sauvage, has perfected a scheme for building a six-story apartment house in eight days.*** he has worked out a plan for the construction of the walls and other parts of the building which can be fitted together within a few days."

The despatch to the *Times* does not give the details of the Sauvage scheme, but the two items noted above are significant as indicating a trend in modern construction toward standardized building units which will permit the erection of structures of average size with considerably less labor than methods now commonly employed.

Labor at present represents nearly 60 per cent of the cost of building. Reduction in the cost of building must largely come through reducing the labor charge as well as effecting economies in the manufacture and utilization of available materials.



DETAIL OF SIDE WALL FRAMING SHOWING THE STEEL CONSTRUCTION UNITS BEFORE ENCLOSING WALLS WERE STARTED

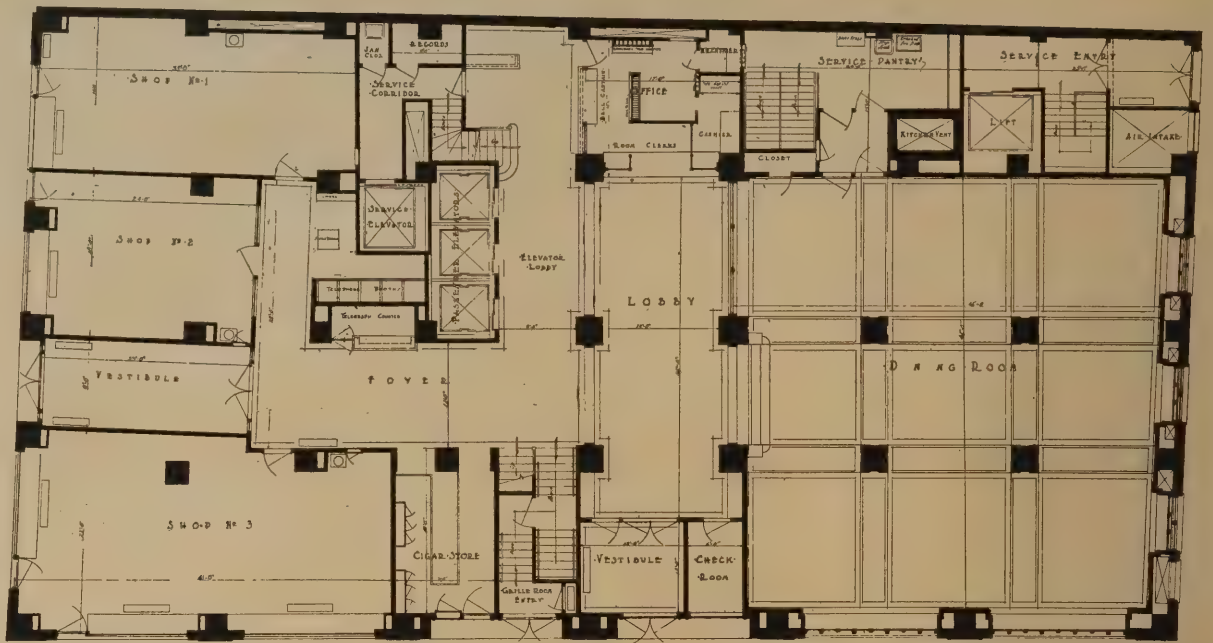
MODEL HOUSE AT TARRYTOWN, N. Y.—A. F. GILBERT, ARCHITECT



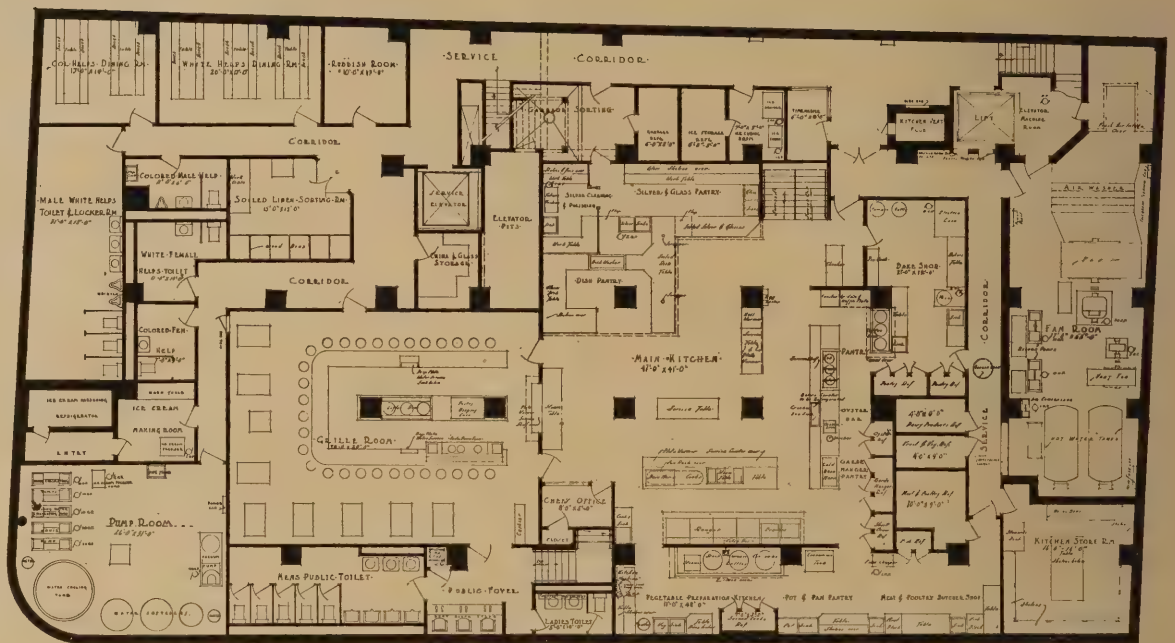
MAYFAIR HOTEL, ST. LOUIS, MO.

PRESTON J. BRADSHAW, ARCHITECT

(See plans on back)



FIRST FLOOR PLAN



BASEMENT FLOOR PLAN

MAYFAIR HOTEL, ST. LOUIS, MO:

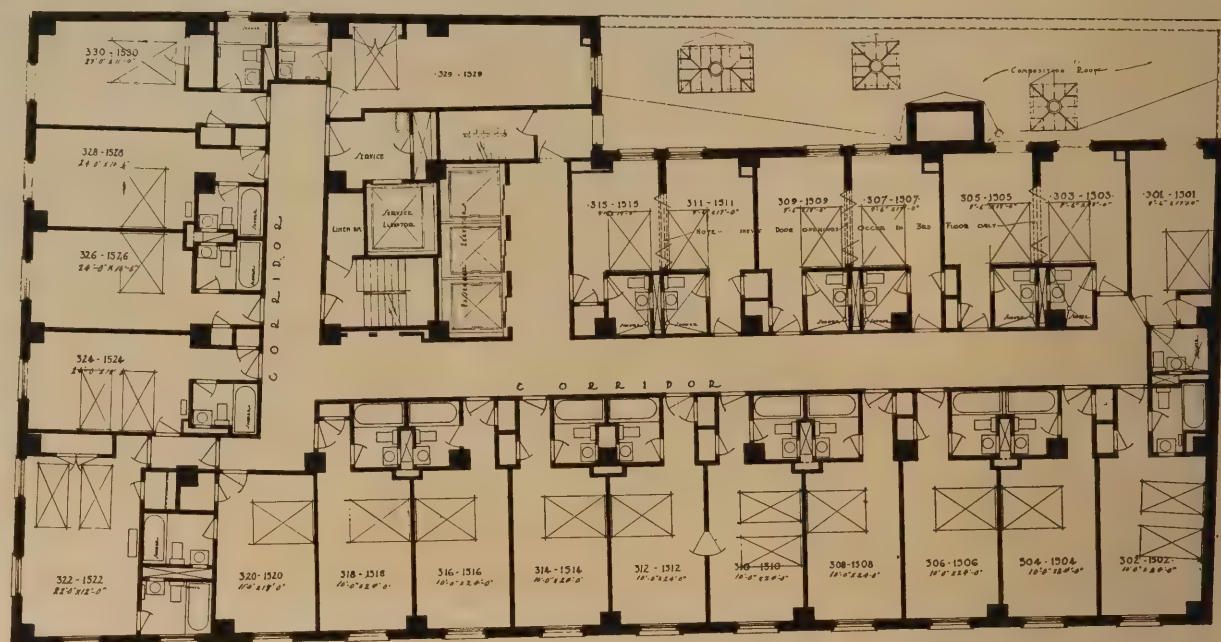
PRESTON J. BRADSHAW, ARCHITECT



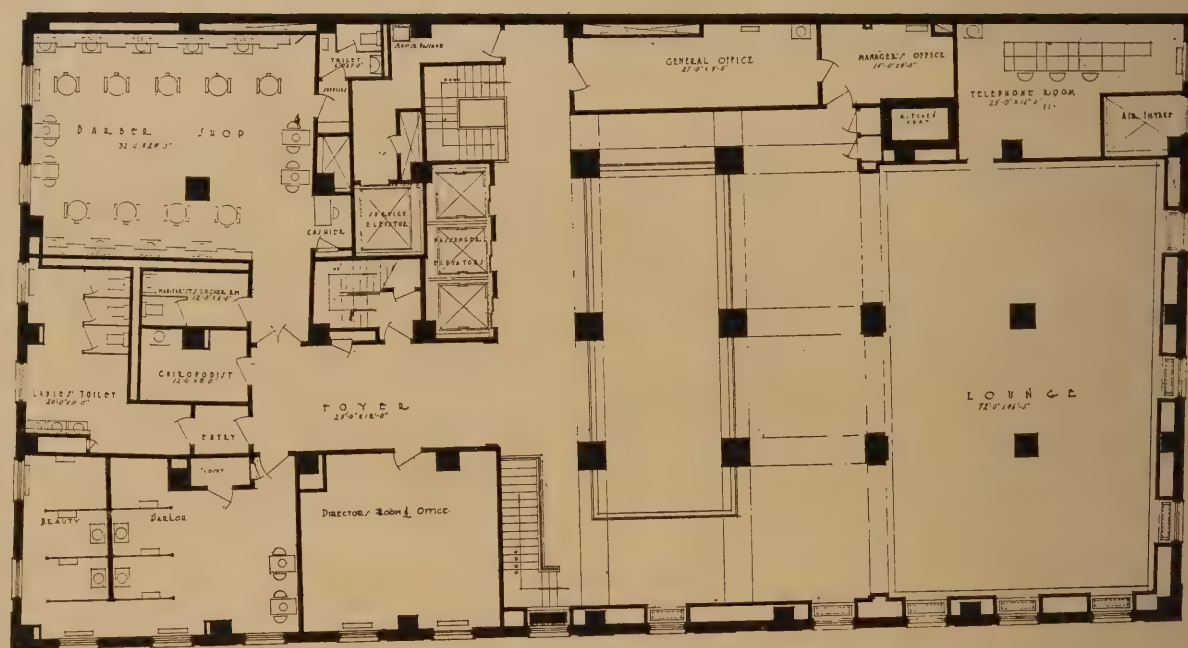
MAYFAIR HOTEL, ST. LOUIS, MO.

PRESTON J. BRADSHAW, ARCHITECT

(See plans on back)



TYPICAL FLOOR PLAN



MEZZANINE (SECOND FLOOR) PLAN

MAYFAIR HOTEL, ST. LOUIS, MO.

PRESTON J. BRADSHAW, ARCHITECT



MAYFAIR HOTEL, ST. LOUIS, MO.

PRESTON J. BRADSHAW, ARCHITECT



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EDITORIAL COMMENT



THE tendency today toward "conferences," long discussions as to what it is proposed to do and even longer talks after the matter has been settled, results in an impractical condition that serves no permanently useful purpose.

We once saw in one of the chemical laboratories of a large university this motto: "Everything comes to him who *hustles* while he waits." The interpolation of the word "*hustles*"—a thoroughly and characteristically American word—gives the real meaning to an old and oft quoted adage.

The man who goes out with an idea or scheme, basically sound, and moves steadily toward the desired end, will accomplish more than he who sits in conference, prosily and tiresomely discussing details that may be radically changed as the matter moves on to a completed end.

We see this tendency of much preliminary talk in all deliberative bodies, and perhaps in our own field of architecture. Conventions are often unanimous and at times even hysterical as to things proposed to be done. Much talk is made, there is a happy sense of big achievement and then—nothing happens. In more than twenty years of experience as an attendant on and close observer of convention proceedings, these conditions, we find, have always been present. We can recall committee reports that were so well written as to be models of English composition, and we can also recall the enthusiasm with which they were received. But in the majority of instances we cannot recall any large measure of achievement following their adoption.

Architectural education, the reform of competition methods, the relation of the profession of architecture to government work, advertising by architects are but a few of the important reports that have been received with acclaim, and much discussed and then lapsed into "innocuous desuetude." And, *per contra*, many things done, and they are of minor or doubtful importance, have yet to be undone, and the profession, as represented by the Institute, rid of encumbrances, or more properly speaking, appendages, that serve no wise purpose and only afford a certain channel for activities by elements that are working solely toward a sordid self-advancement.

President Waid, in a recently published ante-convention announcement, has stressed the question of allied architectural associations. There is also the burning topic, particularly to the man in small practice, of the Small House Service Bureau, not to overlook the Structural Service Bureau.

If we could exchange all these matters for a vigorous policy looking to a better recognition on the part of the government of the profession of architecture, the revision of the conduct of competitions, and a more widespread knowledge and appreciation of architectural service among the general public, it is believed the exchange would be very much worth while. To concentrate on any agreed purpose, one big constructive idea, and to work steadily toward achievement, would be of great value to the profession. We have as examples of big achievement the Lincoln Highway, the Lincoln Memorial, and at one time legislation assuring to architects proper recognition on the part of the National government.



ATTENTION is directed to an article in this issue by Charles Butler, chairman of the Committee on Competitions of the Institute, on the Regulation of Competitions. Mr. Butler's suggestions and recommendations are based on a wide knowledge of competition methods, and should receive consideration at the convention in May.

From a memorandum recently issued by the Royal Institute of British Architects, we quote as follows: "All architects, whether competitors or otherwise, are reminded that discussion or correspondence in the public or professional press, which tends to criticism or disparagement of an award cannot alter the final and binding nature of that award, but may prejudice architects and the whole competition system in the opinion of the public and is therefore highly undesirable."

This "reminder" reminds us of a discussion on the convention floor some years ago. The matter of ethics was under consideration and during the debate a delegate cautioned the convention that certain proposed additions to the code were directly opposed to the constitutional right of "free speech" and should not be considered.

Even a "reminder" may be an intimation of a desire to control free speech, and we are not sure but the promulgation of the memorandum above quoted is of that nature. At the same time it seems as if there should be a tacit understanding that competitions when decided strictly in accordance with competition rules, should not be attacked but allowed to stand unquestioned. Perhaps the next convention may phrase a better worded reminder to direct attention to a tendency toward irresponsible and unfortunate criticism.

ALFRED DWIGHT FOSTER HAMLIN, F.A.I.A.

AN APPRECIATION BY WILLIAM A. BORING

Professor of Architecture, and Director of School of Architecture, Columbia University

THE late Alfred Dwight Foster Hamlin, Professor of the History of Architecture at Columbia University, was a born idealist. He came of Puritan stock, and inherited that nobility of soul and courage which carried his father's crusade for Christian enlightenment to victory in the Near East. In that atmosphere he was born, with the ideals which ruled his life, given as it was to the cause of helping others to see truth and beauty.

He prepared for his life work at Amherst, then at the School of Architecture of the Massachusetts Institute of Technology, and at the Ecole des Beaux-Arts in Paris, and later made extensive studies of the principal monuments of architecture in Christian lands.

He was accomplished as a linguist in both classical and modern languages, and his mother tongue, English, flowed in pure, beautiful volume. His writings clearly expressed his ideas in a forceful, convincing and scholarly style.

His books on the History of Architecture and History of Ornament set a new standard of correct teaching in these subjects, and his numerous essays and lectures are profound in illuminating the humanism of our inherited record of the building art.

His fidelity to the School of Architecture was constant, and to the realization of his ideals of scholarship and professional attainment he gave his whole busy life.

A real architect in knowledge and feeling, his teaching was valuable to the student both in its sound instruction and cultural import.

In his teaching record of forty-three years at Columbia University, Professor Hamlin was an indefatigable worker for the School of Architecture, the success of which was his one ambition. He always laid down his pen when a student came to him, for it was his pleasure to help the inquiring mind along the right road.

He was lovable, and beloved of his students and

co-workers with whom he labored in the finest accord.

Courageous in the right, he was a fierce fighter against wrong, accepting no compromise in principles. To him the way of truth was normal, verity was always expected; his cleanly soul abhorred deception, and he could not abide any one so base as to be guilty of cheating.

Professor Hamlin received the degree of M.A. from Amherst in 1885, and in 1912 the degree of

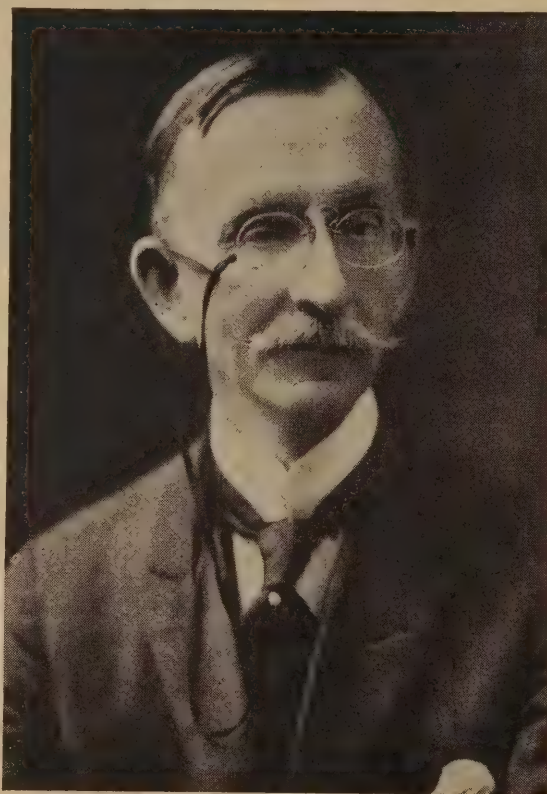
L.H.D. from St. John's College. He was a Fellow of The American Institute of Architects, a member of the Archaeological Institute of America, of the City Plan Committee, of the Merchants' Association and of the Century Club. He was Chairman of the Art Committee to raise funds for the Cathedral of St. John the Divine.

Professor Hamlin became a member of the Broadway Tabernacle Church in 1882, and ever since then this church has been his chief interest outside of Columbia University. There, for over twenty years, he conducted an adult Bible class. At the time of his death he was a Senior Deacon. He had served on many important committees, and his advice was largely sought by the pastor, Dr. Charles E. Jefferson.

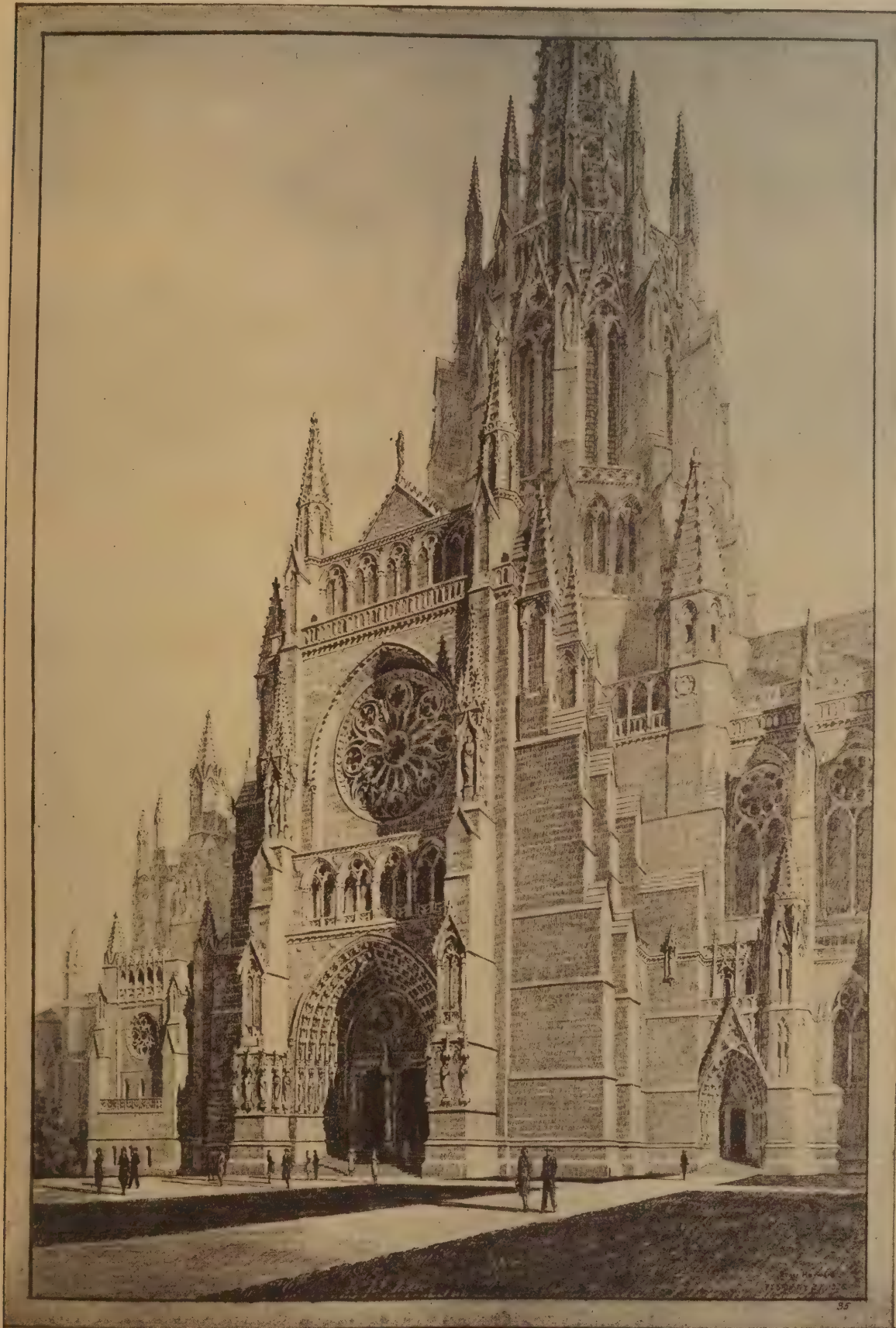
His interest in the Near East, especially in Armenia and Greece, continued throughout his entire life. In 1919 he made an extended tour of the Near East as a Special Commissioner of the Greek Relief Committee, for which he was decorated by the Greek Government.

His contact with the work he had to do was at all times conscientious and painstaking, and his relations with those with whom he came in daily association were marked by fine comradeship.

Surely he digged not in the earth to hide the talent given him! He has gone to show his good work to his Master and to receive his just reward.



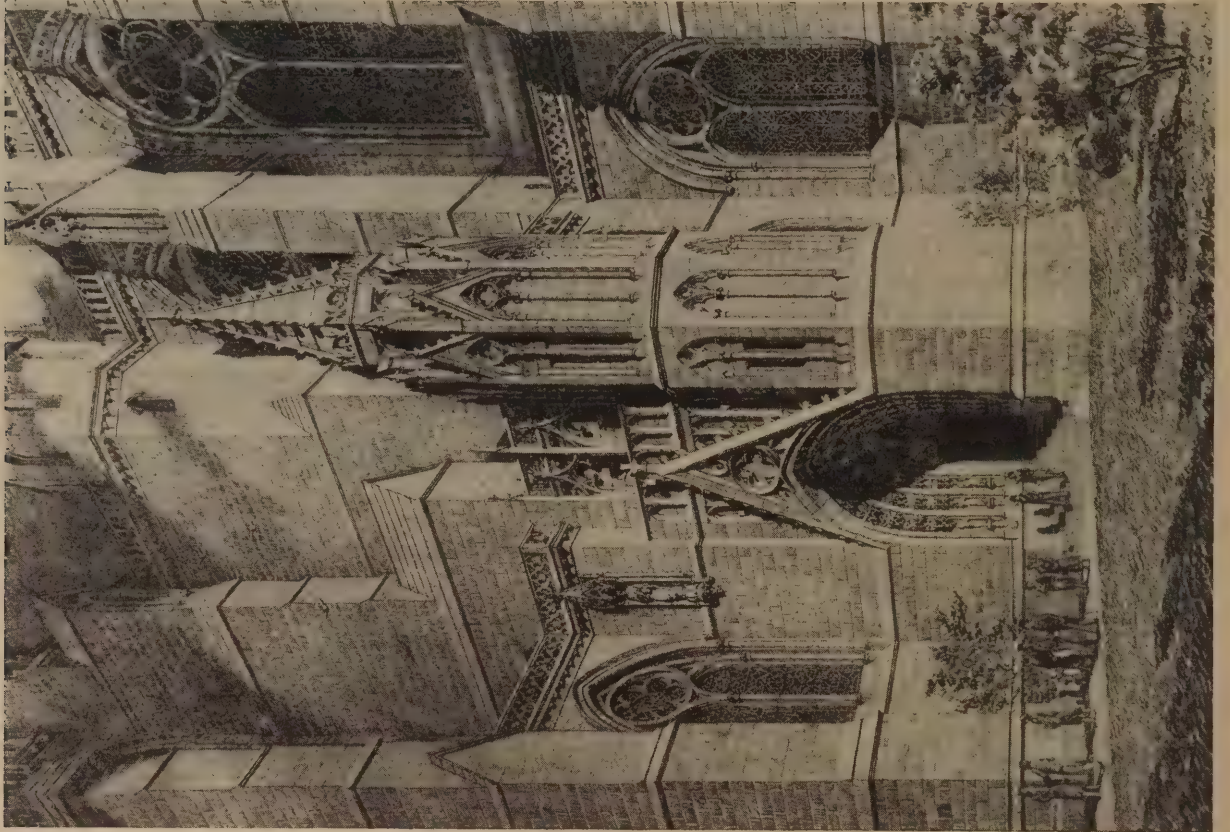
A. D. F. HAMLIN, M. A., F. A. I. A.



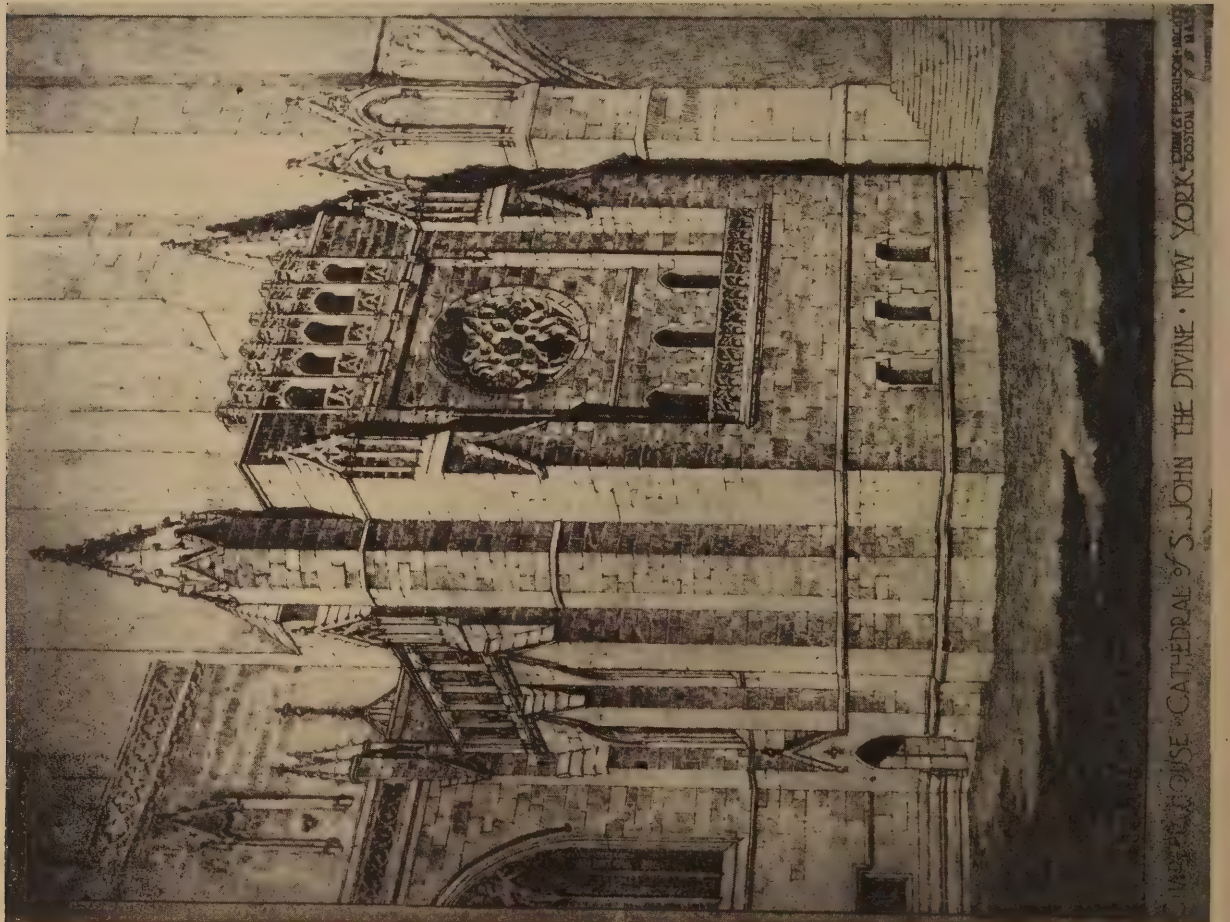
PROPOSED DESIGN, CATHEDRAL OF ST. JOHN THE DIVINE, NEW YORK

NORTH TRANSEPT

CRAM & FERGUSON, ARCHITECTS



NORTHWEST TRANSEPTAL PORCH



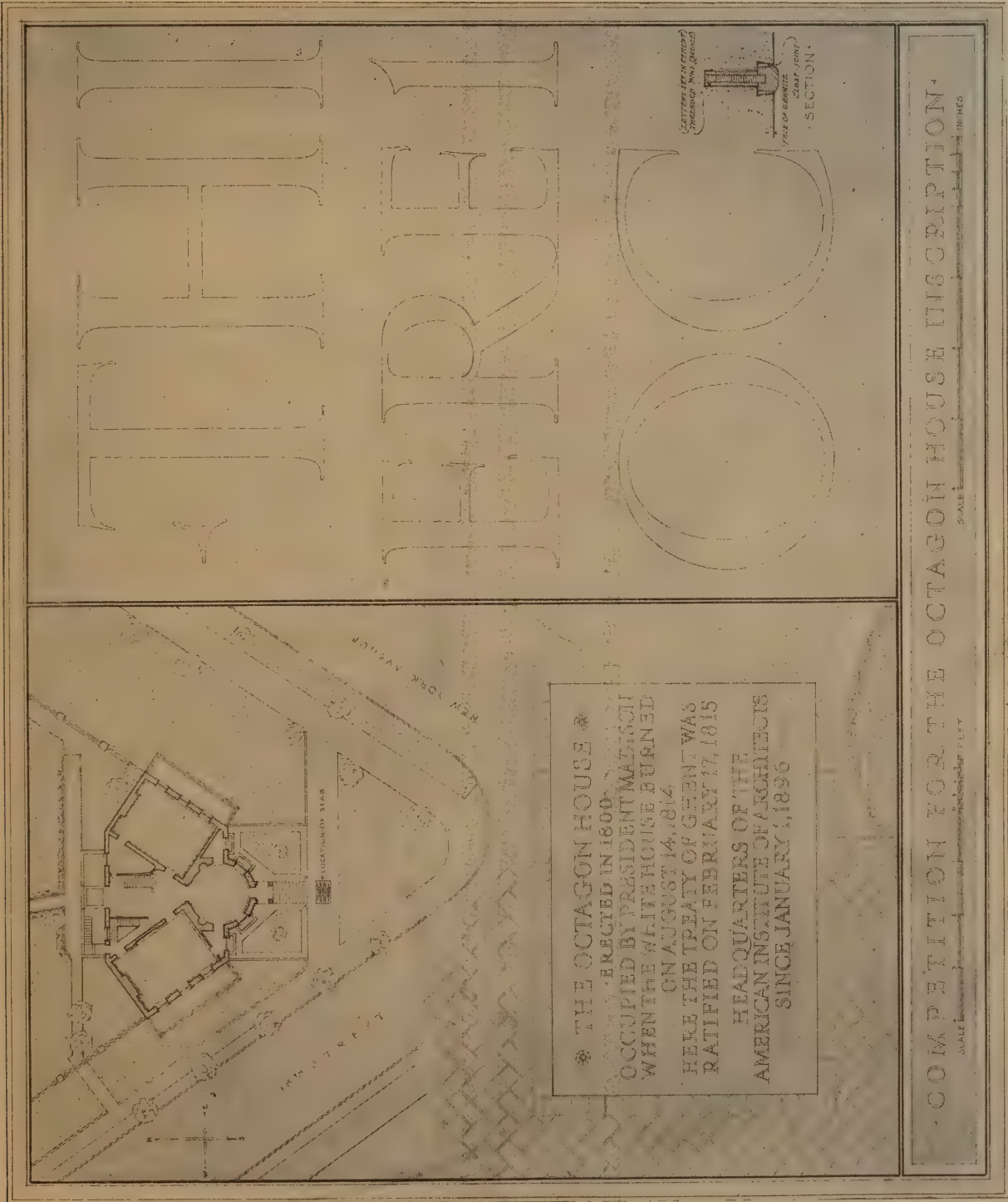
CHAPTER HOUSE

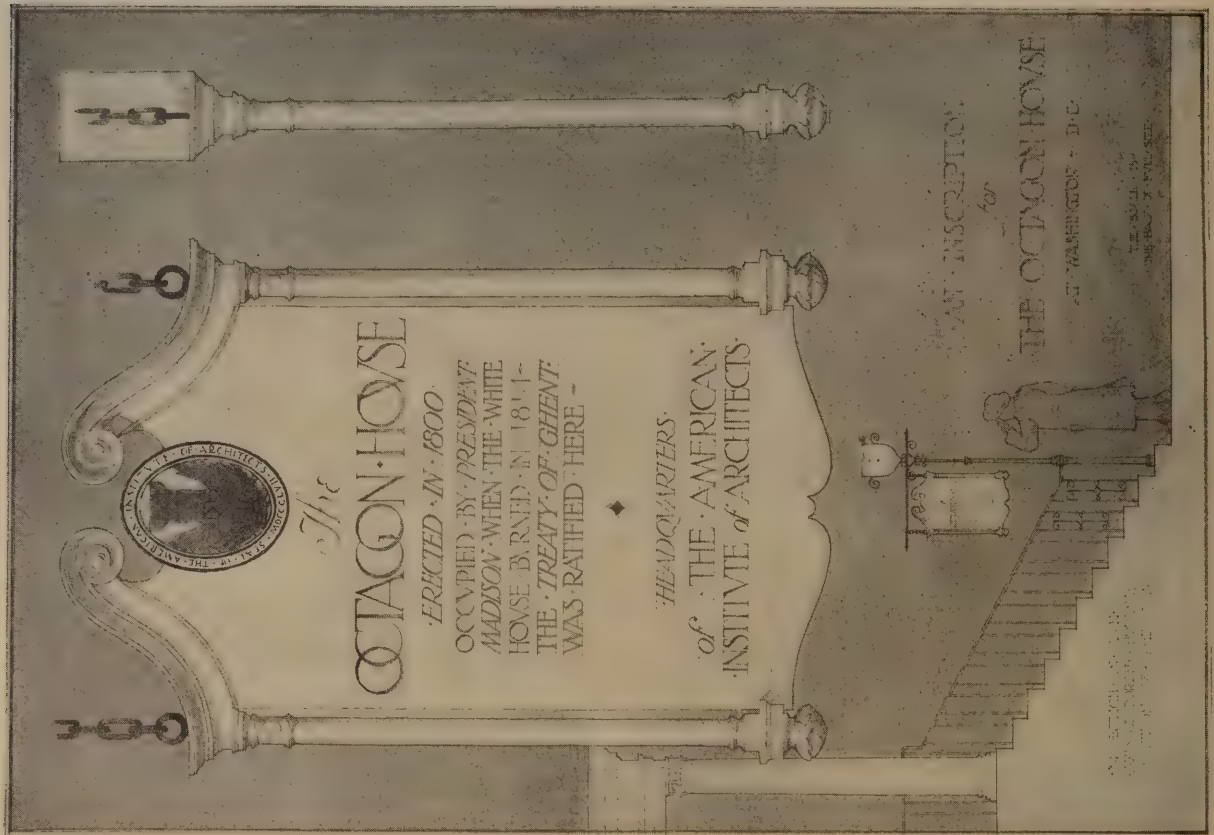
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COMPETITION FOR AN IN-
SCRIPTION FOR OCTAGON
HOUSE, WASHINGTON, D. C.,
HEADQUARTERS BUILDING OF
THE AMERICAN INSTITUTE OF
ARCHITECTS

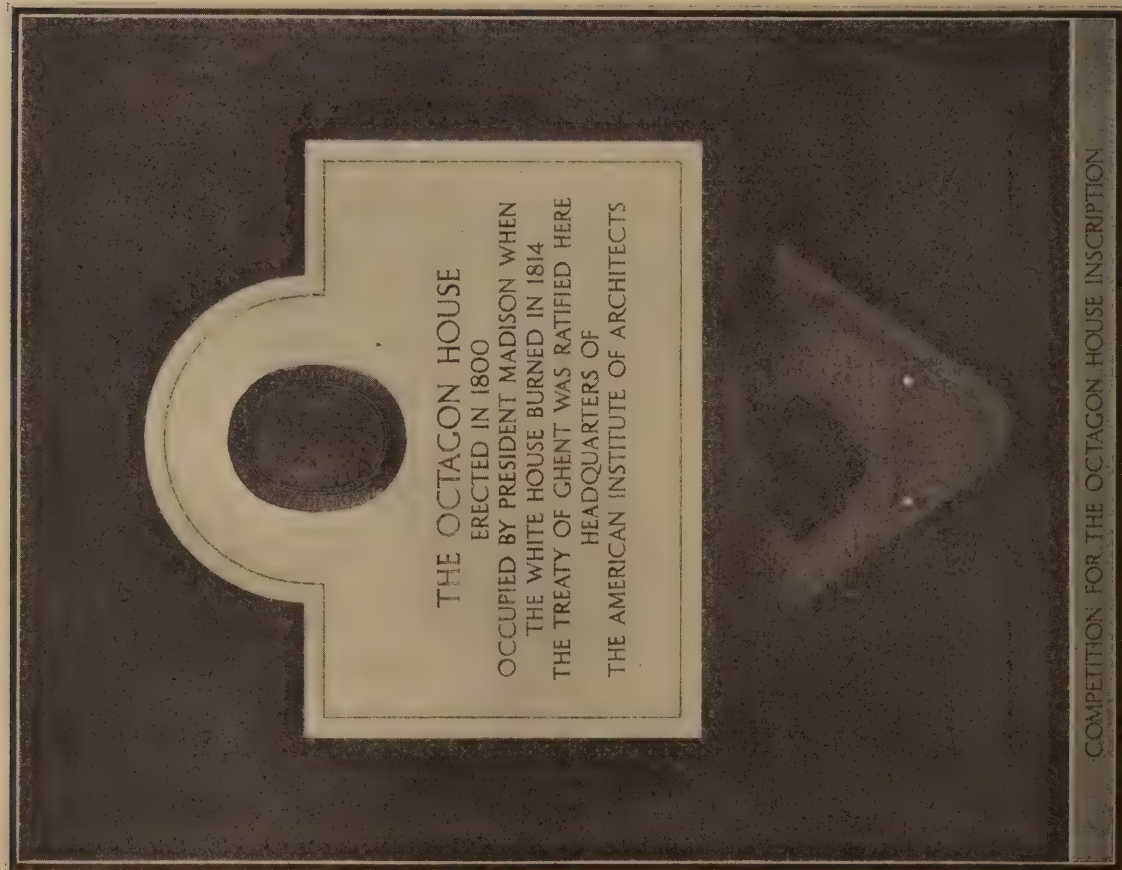
FIRST PRIZE DESIGN BY
AUGUST REULING

26

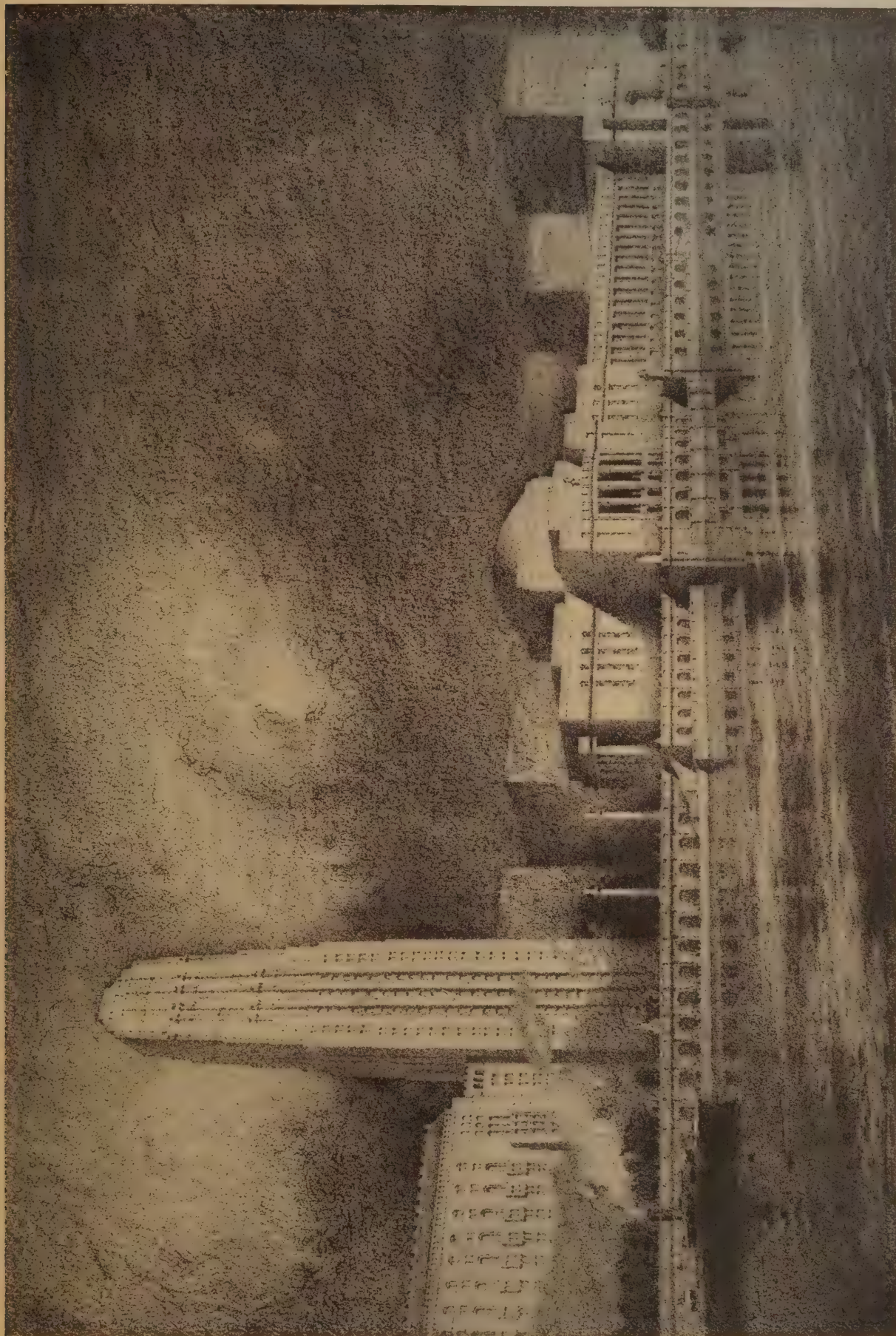




THIRD PRIZE, J. T. JACOBSEN

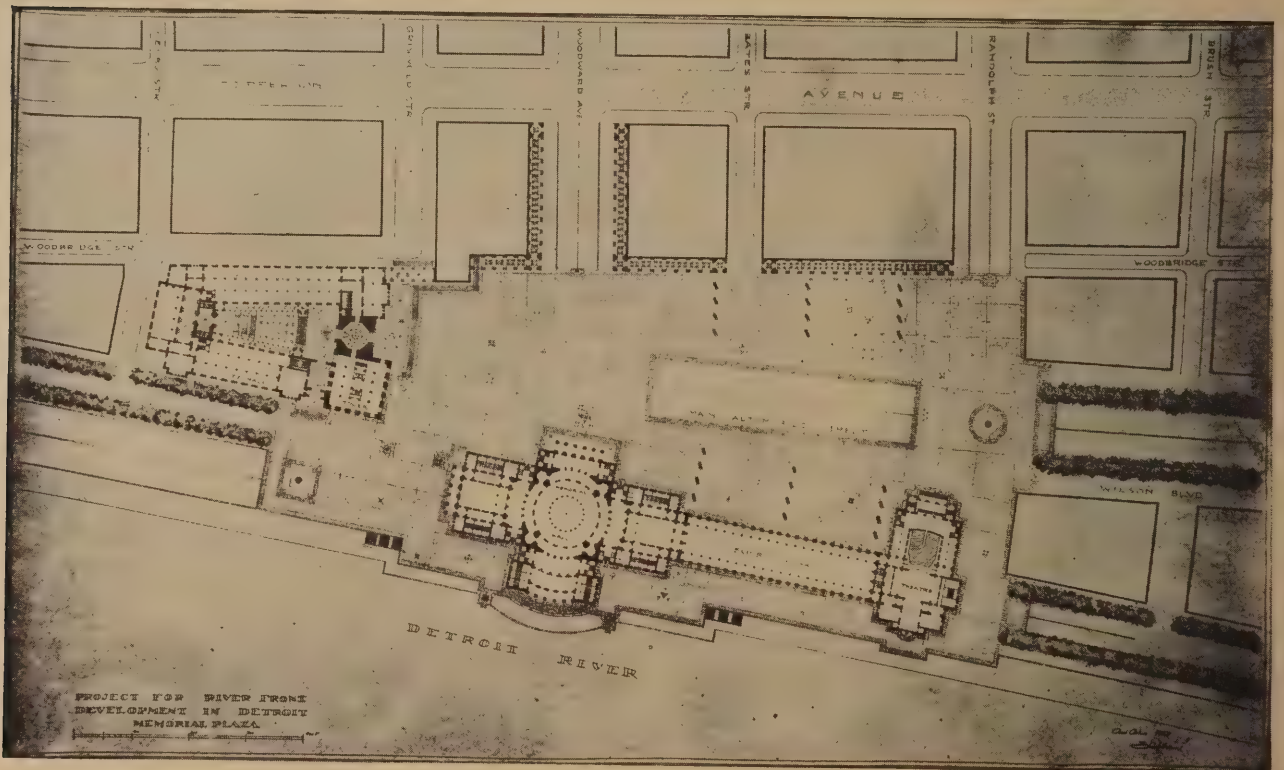


SECOND PRIZE, HAROLD A. RICH, ARCHITECT
COMPETITION FOR AN INSCRIPTION FOR OCTAGON HOUSE, WASHINGTON, D. C.,
HEADQUARTERS BUILDING OF THE AMERICAN INSTITUTE OF ARCHITECTS



PROJECT FOR WATER FRONT DEVELOPMENT, DETROIT, MICH.—ELIEL SAARINEN, ARCHITECT

THE STRUCTURE WITH A DOME, IN THE FOREGROUND, IS MEMORIAL HALL. THE LONG WING ON THE RIGHT OF THIS BUILDING IS A SUGGESTED EXPOSITION HALL. IN ADDITION TO WHICH, HOWEVER, THERE WOULD BE A CONVENTION AUDITORIUM IN THE MEMORIAL HALL PROPER, AS WELL AS ALL OTHER FEATURES REQUIRED BY THE PROGRAM. THE TOWER BUILDING REPRESENTS A CITY OR COUNTY BUILDING SUGGESTED FOR POSSIBLE GROUPING WITH THE MEMORIAL. THIS VIEW IS OF THE SOUTH. THE DETROIT RIVER SIDE. ON THE NORTH OF THE MEMORIAL IS A VICTORY SQUARE, AN ESPLANADE, TRIPLE-DECKED WITH A SUBWAY STATION AND MOTOR CAR PARKING SPACES PROVIDED ON THE UNDER DECKS. A PROPOSED SHORE DRIVE WOULD DIP UNDER THIS ESPLANADE



PROJECT FOR WATER FRONT DEVELOPMENT, DETROIT, MICH.

ELIEL SAARINEN, ARCHITECT

ANNUAL EXHIBITION OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

20

The third annual exhibition of photographs of completed work by members of The American Society of Landscape Architects was held in the Arden Galleries on Fifth Avenue, New York. The exhibition was supplemented by examples of sculpture as a part of landscape design and garden furniture. The general result was a most creditable showing of the work accomplished by this Society during the twenty-seven years of its existence. A new line of effort on the part of landscape architects is to be found in the laying out and planting of golf courses. Much has already been accomplished



HE value of delay in photographing landscape work is shown in the reproductions on the three following pages. Sufficient time has elapsed to permit a growth of foliage, which softens and supplements the work of the architect. None of the subjects illustrated in this issue is recently completed work.

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The good result attained in the planting in the Harkness Quadrangle at Yale, Beatrix Farrand, landscape architect, was shown by a number of excellent views, one of which is reproduced herewith. A similar good accomplishment at Princeton University was shown at this exhibition.

in this direction, and this was interestingly shown at the exhibition.

The New York Chapter has just issued its first Year Book. It is a well-prepared work and shows how rapid has been the growth of landscape architecture during but little more than a quarter century and emphasizes the good results that are always to be attained when the architect and the landscape architect work harmoniously together.

Clarence W. Fowler was the chairman of the Exhibition Committee, assisted by Marian C. Coffin, Noel Chamberlin and Alfred Geiffert, Jr.



GARDEN AT WHEATLY HILLS, N. Y.—MARIAN C. COFFIN, LANDSCAPE ARCHITECT

39

AT RIGHT: GRAYHAMPTON,
GREENWICH, CONN.

JAMES L. GREENLEAF,
LANDSCAPE ARCHITECT

BELOW: HARKNESS QUADRANGLE,
YALE UNIVERSITY, NEW
HAVEN, CONN.

JAMES GAMBLE ROGERS,
ARCHITECT

BEATRIX FARRAND,
LANDSCAPE ARCHITECT

39





ARMAND R. TIBBITTS, LANDSCAPE ARCHITECT—SLEE & BRYSON, ARCHITECTS



A CITY "BACKYARD"—MARIAN C. COFFIN, LANDSCAPE ARCHITECT



GARDEN AT KATONAH, N. Y.
MARIAN C. COFFIN, LANDSCAPE ARCHITECT



JAMES L. GREENLEAF, LANDSCAPE ARCHITECT
CARRERE & HASTINGS, ARCHITECTS

~~“—or equal”~~

Under constant supervision, completely coordinated from ore to finished product, copper and zinc from Anaconda mines are refined to a purity of 99.9% and manufactured into Anaconda Brass Pipe by methods developed during a hundred years of experience. The American Brass Company, General Offices, Waterbury, Connecticut, operates seven completely equipped mills and maintains Offices and Agencies in the principal cities.

ANACONDA BRASS PIPE



THE LAW AS TO ARCHITECTURE

By CLINTON H. BLAKE, JR., OF THE NEW YORK BAR

THE question of the preparation of and payment for shop drawings is becoming of more and more importance in the practice of the ordinary architect. The custom of having the drawings for the structural steelwork, the electrical layout and the like prepared by engineers in many cases disassociated from the organization of the architect has naturally grown under modern building conditions. The development of the American structural steel building and many other similar factors have all contributed to this result.

The ordinary practice under the Institute form of contract is, of course, for the architect to employ the mechanical or other engineers and to charge the cost thereof to the client. Under this arrangement the charge to the client is a disbursement item purely and the engineer is entitled to look to the architect for his compensation. Some architects seem to be under a misapprehension and to have the impression that the engineer is, in fact, the employee of the owner and not of the architect. Whether this is the case or not will depend naturally upon the agreement which the architect makes with the engineer. If the architect employs the engineer directly himself as contemplated under the Institute agreement and then charges the engineering costs to the client as disbursements, the contract will be between the architect and the engineer and not between the engineer and the owner. If the architect desires to avoid this personal liability, he must pursue a different course. He must employ the engineer in behalf of the owner and as the agent of the owner, and make it clear in so doing that the engineer is employed by the owner through the architect as agent and is not employed by the architect personally. Where this plan is followed the contract between the architect and the owner also should be modified from the Institute form so as to show clearly not only that the owner will pay the cost of the engineering service but that the engineers employed are the employees of the owner. Their employment, where this plan is adopted, will be similar to the employment of a clerk of the works under the ordinary arrangement whereby the clerk of the works is employed by the owner with the consent and approval of the architect and is paid by the owner.

Where the charges for engineering work are minor, or where the architect's office is sufficiently large so that it boasts an engineering staff of its own, the plan of charging the engineering services as disbursements and having the architect responsible for them in the first instance may be logically followed. In the intermediate case, however, where the services run into a considerable amount of

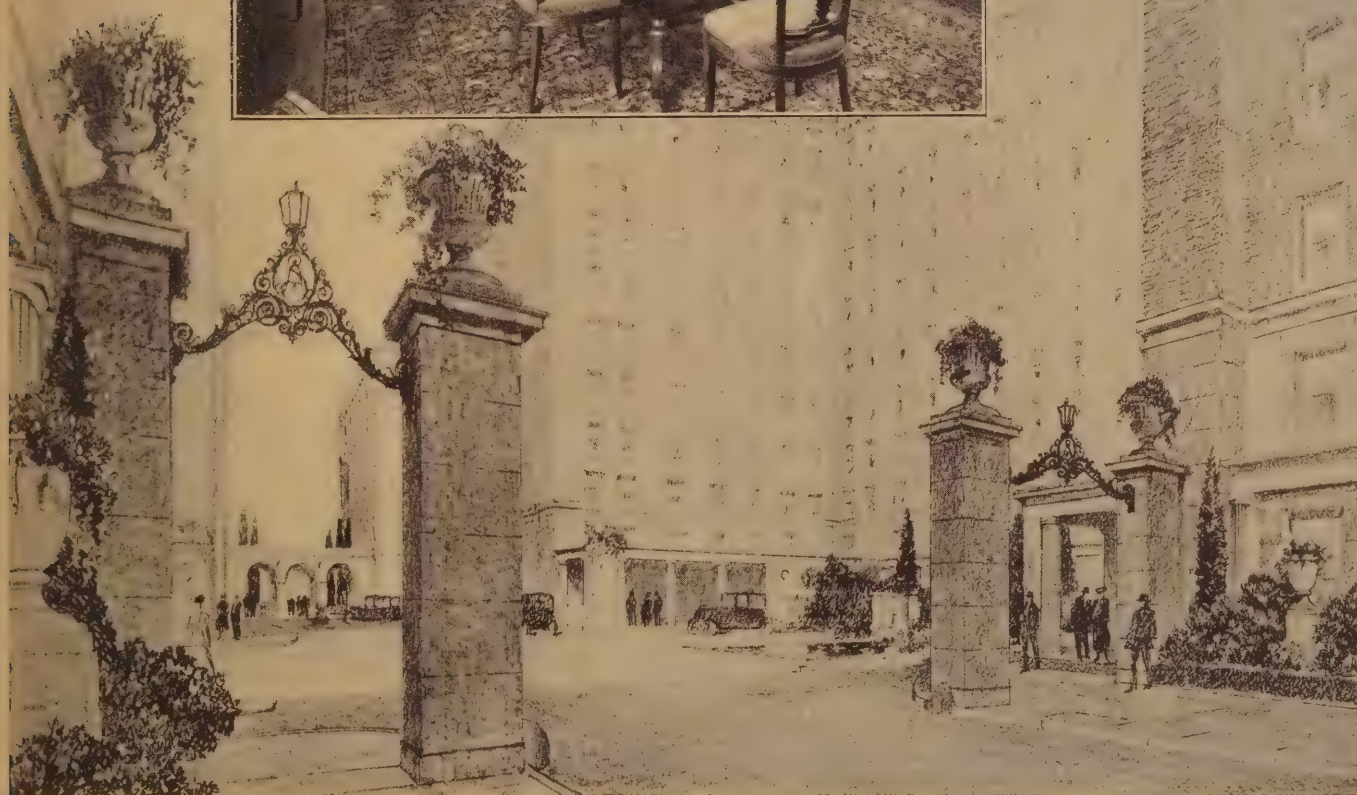
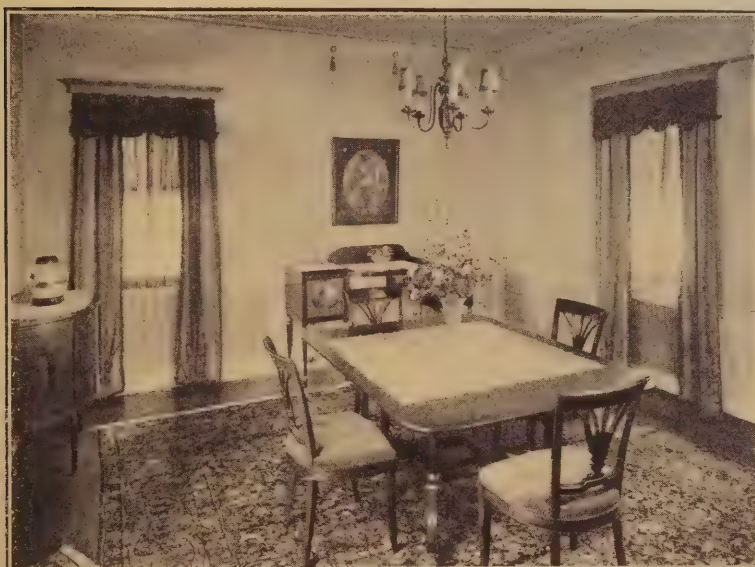
money and where, on the other hand, the office is not sufficiently large so that it has its own engineering employees, the architect may well consider the advisability of so wording his contract with the owner that the owner and not the architect will be the employer of the engineer. Necessarily, the engineer must, however, in any event work closely with and under the general direction of the architect.

Where the client is one upon whose fairness and financial responsibility the architect can safely rely, it will not be so important to consider whether the engineer should be employed by the owner or by the architect. Under these conditions, however, and assuming the best possible faith on the part of the client, some difficulty may arise. The engineer may submit a bill which the architect approves, but which in entire good faith the client considers excessive or for some reason improper. Under these conditions the architect will be faced with a dilemma. He must pay the engineer and trust to recovering the amount from his client, or he must hold up the payment of the amount to the engineer while the matter is argued out with the client. To follow the first course will expose him to a possible loss or controversy with his client. To follow the second will be a breach of the obligation and good faith which he owes to the engineer.

It sometimes happens that the architect will approve shop drawings without noticing that they differ in some respects from the plans and specifications. In such a case an interesting question arises as to whether the plans and specifications shall control and to what extent the architect is bound by his approval. As between the architect and the engineer the approval, if quite definite, may be binding upon the architect. As between the owner and the contractor, or the owner and the architect, or the owner and the engineer, however, the approval will not necessarily be controlling as against the owner. The owner is entitled to have his house built in accordance with the construction contract which, of course, provides that it shall be built in accordance with the plans and specifications. The plans and specifications cannot ordinarily, as the contracts are now drawn, be changed or modified in any way by the architect without the authority, usually in writing, of the owner, unless the contract is so drawn as specifically to permit it. The architect cannot bind the owner by an approval of shop drawings which differ from the plans and specifications and which, if adopted, would result in giving the owner a job different from that for which he has contracted. It is not a bad idea to have the approval on the drawings use the phrase, "Approved if not inconsistent with plans and spec-

OFTEN characterized as one of the most important housing developments of recent years, the Schenley Apartments, at Pittsburgh, exemplify in marked degree that careful attention to detail of design and layout which make for success. The fact that S. W. STRAUS & Co. had a definite part in this undertaking naturally is a matter of gratification. At every stage of construction, from blue-prints to finished structure, every facility of this great underwriting Organization was at the complete disposal of owners, architects and builders, with results that can be secured only through such friendly cooperation.

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ifications." It is a much better plan to make sure in addition that the checking of the shop drawings in the architect's office is entrusted to competent hands and that no shop drawings which differ from the plans and specifications are unwittingly approved by the architect.

LEGAL DECISIONS

A CONTRACT between a city and a contractor provided for arbitration as a condition to the right to sue and that a written offer to arbitrate followed by the arbitration, if accepted, should be a condition precedent to any legal action by either party. The contractor gave notice of termination and abandoned the contract. No appeal to the board of arbitration was taken prior to this action by the contractor. The court held that contracts which require arbitration prior to legal action are valid and enforceable, but that in the case before it the city could not be called upon to arbitrate after the contractor had abandoned the contract, and that the city did not lose its right to contend that it could not be sued unless the appeal to the board of arbitration were taken before the termination of the contract by the contractor in accordance with the contract provisions.

Jackson v. City, 226 Pac. 487.

UNDER the contract for the erection of a church building, it was provided that any question which might arise with respect to the intent and meaning of the drawings or specifications or the fitness of material or labor should be decided by the architect and that his decision would be final and conclusive. The architect directed the contractor to take down a brick wall, on the ground that it did not meet the specifications. The contractor claimed in the suit that the direction of the architect was unjust and arbitrary, but he complied with the architect's request and took down the wall. The contractor later abandoned the contract, and the trustees of the church brought action against him for the amount over the contract price expended by them to complete the work.

The contract provided, also, that the contractor should maintain insurance in his own name and in that of the owner against fire loss, and that he should also carry liability insurance. It appeared that he failed to live up to his obligations in this respect. The contract contained a liquidated damage clause, providing that the contractor should pay, as liquidated damages, and not as a penalty, \$5.00 for each day that he should be in default. It appeared that there were seventy-eight days' delay in completion occasioned by the contractor's breach in abandoning the contract. The contractor claimed that the architect also arbitrarily

fixed a height from the grade line and asked the court to submit to the jury the question whether the architect was unfair in his demands with regard to extra work required under the contract.

The court held as follows: that, in view of the architect being practically made arbitrator, the interpretation of the plans by a sub-contractor on brickwork would not control, as opposed to the architect's decision; that, to charge the architect with arbitrarily fixing the height from the grade line, the plans for fixing it should be shown; that the architect's act in having the brick wall taken down was *prima facie* or conclusive evidence that he did so under the powers granted him by the contract to determine whether the work was properly performed; that the decision of the architect that the wall did not conform bound both the church trustees and the contractor, as it did not appear that it was unjust and arbitrary; that, if there had been fraud or collusion between the architect and the committee, the contractor could, in view of the architect's demand, have abandoned the contract, but that no such fraud appeared; that in any event a wrong judgment by the arbitrator does not justify the abandonment of the work by a contractor; that, if the architect's judgment and demands were arbitrary and unjust, the contractor should have declined or refused to comply and, if the architect insisted, should have abandoned the work at that time; that, having accepted the judgment of the architect, however, and complied with his request and continued under the contract until he later abandoned it, the contractor, by so continuing, waived his right to treat the arbitrary direction of the architect, if it were arbitrary, as a breach; that he might be entitled, upon complying with the architect's orders, to recover damages on the ground that the architect's act was arbitrary and unjust, but that, having abandoned the contract subsequently, he could not base his defense to the charge of such abandonment on the ground of the architect's unfair demands; that the contractor and his sureties were liable for the cost of the insurance, because of the contractor's failure to abide by the insurance clause of the contract; that the liquidated damage clause was good and that the owner was entitled to recover \$5.00 a day for seventy-eight days, as a result of the abandonment by the contractor and subsequent delay; that, as it appeared that the contractor agreed to the changes in the original specifications and received pay for his extra work and material, with the exception of certain brick which went into the building and which was purchased by him or contracted for before he signed the contract or did the work, the court would not submit to the jury the question whether the architect was unfair in his demands with respect to such extra work, and that the owner was entitled to judgment on the bond.

Garrett v. Dodson, 199 Southwestern 675.



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OCCASIONALLY, most architects run into this kind of a job—connecting a new and old building, or tearing out a wall for an annex. Right then, there's a wonderful opportunity to know how mortar acts.

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This is no idle selling talk—it's a fact, backed by the testimony of architects and contractors who have found it true.

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Inc., Chicago, Ill.
Contractor—B-W CONSTRUCTION CO.
Chicago, Ill.

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NOMINATIONS FOR OFFICERS FOR 1926-27

NOMINATIONS for officers of The American Institute of Architects for 1926-27, as reported in the *Institute Journal*, are as follows:

President:

Charles A. Favrot, New Orleans
Abram Garfield, Cleveland
Milton B. Medary, Jr., Philadelphia
H. Van Doren Shaw, Chicago

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William Emerson, Boston
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Regional Director—5th District:

Dalton J. V. Snyder, Detroit

Regional Director—8th District:

A. H. Albertson, Seattle
Fred F. Willson, Bozeman, Mont.



PRODUCERS' RESEARCH COUNCIL

THE Producers' Research Council, affiliated with The American Institute of Architects, will hold its third annual meeting at the Hotel Washington, in Washington, D. C., Tuesday, May 4, the day preceding the opening of the convention of the Institute. Matters of mutual interest to architects and members of the Council will be discussed. A cordial invitation is extended by the Council to members of the Institute to be present at this meeting.



PHILADELPHIA ARCHITECTURAL EXHIBITION

THE twenty-ninth annual architectural exhibition to be held jointly by the Philadelphia Chapter of The American Institute of Architects and the T Square Club of Philadelphia in collaboration with the Sculpture Committee of the Art Alliance, will be held in the galleries of the Art Alliance from May 8 to May 31, both inclusive. This is one of the important exhibitions of the year and will undoubtedly attract a large amount of worth-while material. The annual medal of the Philadelphia Chapter of The American Institute of Architects will be awarded. All communications should be addressed to the Secretary, 1520 Locust Street, Philadelphia, Pa.

BROAD STREET ASSOCIATION OF NEWARK, N. J.
AWARDS PRIZES

FOLLOWING an annual custom, the Broad Street Association of Newark, N. J., has awarded prizes for various types of buildings erected in 1925, as follows:

The "most imposing structure," first prize—Firemen's Insurance Company Building, John H. & Wilson C. Ely, architects. Second prize—office building of Walter Buerman, 1002-4 Broad Street, Daniel J. Scrocco, architect. Third prize—department store for the Goerke Company, William E. Lehman, architect. For best alteration—Landay Hall, 726 Broad Street, Simeon B. Eisendrath, architect.



SCHOLARSHIPS FOR TRADE WORKERS DESIRING
TO TEACH

SCHOLARSHIPS for qualified trade and technically trained men and women who desire to prepare themselves for industrial teaching are being offered by the New York State Department of Education. In order that an applicant may be eligible for appointment for a scholarship he must possess the following qualifications:

He must have had 5 years or more of journeyman experience in a trade, industrial or technical occupation. For women 5 years' experience is necessary, of which not more than one year shall have been in apprenticeship.

In education, satisfactory completion of the work of the eighth grade and one full year of work in an approved high school or its equivalent are required.

Age limits for men range from 23 to 38 years and for women from 21 to 35 years.

An applicant must be a citizen of the United States and a resident of the State of New York for one year preceding the date of application.

An applicant must also be of good moral character and in possession of good health.

Application forms for scholarships are furnished by the Division of Vocational and Extension Education, State Department of Education, Albany, N. Y. All applications must be filed with that Division on or before May 17, 1926.



A CORRECTION

IN OUR issue of January 20 in which there was illustrated the Knoedler Building on East Fifty-seventh Street, New York, the attribution of authorship was to Carrere & Hastings, architects. We are now advised that this attribution should have been Carrere & Hastings, Shreve, Lamb & Blake, architects.

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INDIANA LIMESTONE

The NATION'S BUILDING STONE

OLD buildings can be given a new and *permanently beautiful* exterior by applying a facing of either cut or rough-sawed Indiana Limestone over the old walls. This is a popular and highly satisfactory method of "toning up" a structure which has begun to show wear, or repairing one whose materials have proven unsatisfactory.

Walls faced with a four-inch thickness of Indiana Limestone have the same appearance as those built solidly of stone, but cost much less. The increase in the value of a building remodeled in this manner will pay for the cost of the remodeling several times over.

Unlike other veneer-facings, which sometimes wear off, Indiana Limestone is practically everlasting, for expert geologists have estimated that this natural stone weathers away possibly a little more than one-sixteenth of an inch in a century. It does not crumble or decay, but has the peculiar quality of hardening on exposure to the air, and assures owners an exterior which will be permanently satisfactory.

Our handsomely illustrated booklet, "Indiana Limestone Bank Buildings," will be sent free upon request

Indiana Limestone Quarrymen's Association
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Service Bureaus in New York and Chicago

We discourage cleaning Indiana Limestone buildings, since the venerable antique effect produced by weathering is conceded to be one of the great charms of natural stone. However, anyone determined to clean a stone building may obtain complete information on methods that will not destroy the surface of the stone, by writing to the Indiana Limestone Quarrymen's Association, Service Bureau, Bedford, Indiana.

Branch Building of the
Detroit Savings Bank
Detroit, Michigan
Before being
remodeled



Branch Building of the
Detroit Savings Bank
Detroit, Michigan
C. L. Phelps, Architect
Remodeled with a facing of
Indiana Limestone

BETTER HOMES FOR BRAIN WORKERS
COMPETITION

A CABLE from Paris announces the decision of the jury of judges convened to select the three prize winning essays in the Williard Reed Messenger international essay competition on the subject of better housing for brain workers arranged by the International Federation of Building and Public Works for which Mr. Messenger of New York donated the prizes.

The first prize of \$500.00 was awarded to Pierre Coloni of Paris; the second prize of \$300.00 was not awarded; the third prize of \$200.00 was awarded to Jean Bergerot of Paris.

Fifteen countries, including the United States, were represented among the contestants. The jury of eleven judges, representing several leading nations, was presided over by B. H. Conner, President of the American Chamber of Commerce in France. The Federation plans to hold the competition biennially to correspond with the Federation's Biennial Congress. Model homes designed, constructed and financed according to the plans of the winning essays are to be erected in several cities to improve the housing facilities for intellectual workers.

MAHOGANY—ITS ORIGIN AND CONVERSION

AS A rule, architects are not thoroughly informed as to the origin and nature of materials specified. It serves their purpose to have the assurance, received either by personal experience or acquaintance, or through sources that experience teaches are dependable. But it very often happens that intimate knowledge will bring with it a glimpse of possibilities of use or application, that begets originality and advances a wider and more practical application of a material.

Ichabod T. Williams & Sons, of New York, large dealers and factors of foreign and domestic woods, have issued an attractive pamphlet of 48 pages, size 11 x 16 inches, that treats of the history of their firm, established in 1838, and describes with much detail and many well chosen illustrations their extensive plant at Carteret, N. J. The illustrations refer to various woods from their forest sources, transportation, methods of handling and storage and manufacture through and to the ultimate use of the woods.

It is interesting to learn how all the various phases of manufacture, when carried forward with the skill attained by long experience, lead to a perfect product. The fine veneers, the quartered wood, the ornamental possibilities of wood when used for its many purposes, are so clearly set forth by large and well made illustrations that architects can easily learn that what they have, perhaps, regarded as the natural qualities of different woods are searched for in their lurking and hidden depths

by those who know where and how to seek for them.

The story of real mahogany as set forth in this pamphlet, its origin and conversion, is of considerable interest.

While this pamphlet, or souvenir, as it is called, is not for general distribution, architects who have a real interest in mahogany and desire to extend their knowledge of the use of that wood, may, we believe, with success request a copy.

20

BUILDING OFFICIALS' CONFERENCE,
COLUMBUS, OHIO

THE twelfth annual meeting of the Building Officials Conference will be held April 27 to 30 at the Neil House, Columbus, Ohio. Arrangements have been made for a visit and inspection of the ceramic laboratories of the Bureau of Mines, United States Department of Commerce. Papers will be read by Messrs. S. H. Ingberg and H. E. Foster of the Bureau of Standards. A. L. Ferguson, consulting architect, of Philadelphia, is announced as one of the speakers on the program.

20

YEAR BOOK, NEW YORK SOCIETY OF ARCHITECTS

THE Year Book of the New York Society of Architects is undoubtedly one of the most complete publications issued by any architectural society we know of. Encyclopedic in character, it contains a fund of information that is, by careful editing, made quickly accessible. It is in its text in the various departments stripped of non-essentials, leaving a meaty and accurate digest. All this is time saving and makes these volumes—the one for 1926, just received, is the fifteenth—a complete reference library.

As an example showing how carefully this Year Book is prepared, attention may be directed to an index, headed: Contents of the year books issued prior to 1926. In this index one may find the desired matter and turn at once to the yearly volume, without spending time in searching through the fourteen back numbers.

The contents comprise a complete roster of all architects practicing in New York State, building codes and zoning resolutions, and laws pertaining to architecture. Many other pertinent matters are properly treated. The whole volume is compact and useful.

The headquarters of the New York Society of Architects are at 29 West Thirty-ninth Street, New York City.

20

PERSONAL

Herbert Cohen, architect, announces the removal of his offices from the Campbell Block to 323-324 S. M. Damon Building (Bishop Bank), Honolulu, Hawaii.



A group of Kansas City buildings that are equipped with *Ideal*

Standardize on *Ideal* for Elevator Door Efficiency

Perfect operation and control are guaranteed when *Ideal* Elevator Door Hardware is installed. For while hangers, closers, checking devices and safety interlocks are distinctly separate mechanisms, they all synchronize perfectly when installed together. *Complete Unit Control* under a single responsibility is assured. Door weight is evenly distributed; doors glide on steel ball bearings along heavy, dirt-proof track, smoothly and noiselessly. Speed and quiet are important *Ideal* features. Either mechanical or electric inter-locks can, like all other *Ideal* elevator door hardware, be added without changing present controller mechanism. If, in addition to speed and freedom from trouble, you want real elevator door safety, write us for complete information. Our engineers are at your service.

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REFERENCE LIST OF BUSINESS LITERATURE

*A Service arranged for the use of the Architect, Specification Writer
and Architect Engineer*

THIS list of the more important business literature of Manufacturers of building material and equipment is published each issue. Any of these publications may be had without charge, unless otherwise noted, by applying to The American Architect, 239 West 39th Street, New York, or obtained directly from the manufacturers. Either the titles or the numbers may be used in ordering.

Arranged according to the Standard Construction Classification adopted by the American Institute of Architects.

- | | |
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| 1. PREPARATION OF SITE. | 22. MARBLE AND SLATE. |
| 2. EXCAVATION. | 23. FLOOR AND WALL TILE AND ACCESSORIES. |
| 3. MASONRY MATERIALS. | 24. PLASTIC FLOORS. |
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| 7. WATERPROOFING AND DAMPPROOFING. | 28. FURNISHINGS. |
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| 13. STRUCTURAL STEEL AND IRON. | 34. POWER PLANT. |
| 14. MISCELLANEOUS STEEL AND IRON. | 35. EQUIPMENT, STATIONARY. |
| 15. ORNAMENTAL METAL WORK AND PHYSICAL PROPERTIES OF METALS. | 36. CONSTRUCTION PLANT. |
| 16. FIRE RESISTING DOORS, WINDOWS, AND TRIM. | 37. INSULATION. |
| 17. SPECIAL DOORS AND WINDOWS. | 38. LANDSCAPE. |
| 18. VAULTS AND SAFES. | 39. ACOUSTICS. |
| 19. CARPENTRY. | 40. REGULATIONS. |
| 20. FURRING AND LATHING. | I PLANS AND DESIGNS. |
| 21. PLASTERING. | II GENERAL CATALOGS. |
| | III FINANCING OF ENTERPRISES. |

1. PREPARATION OF SITE

2. EXCAVATION

3. MASONRY MATERIALS

American Face Brick Association, 1754 People's Life Bldg., Chicago, Ill.

103. *The Story of Brick.* Contains the history of, and basic requirements of building brick, artistic, sanitary and economic reasons, comparative costs, and fire safety with photographs and drawings, and illustrates ancient and modern architecture works of note in brick. Size, 7 x 9½ in. 56 pp.

The General Fireproof Building Products, Youngstown, Ohio.

941. *Fireproofing Handbook.* 64 pp. Size, 8½ x 11 in. Illustrated. Gives methods of construction, specifications, data on Herringbone metal lath, steel tile, Trussit solid partitions, steel lumber, self-centering formless concrete construction.

942. *Hardening and Dustproofing New or Old Cement Floors.* Gives methods for both metallic and chemical hardening. Form A-541.

Kosmos Portland Cement Co., Louisville, Ky.

877. *Kosmortar. A Mason's Cement.* A circular describing the properties of this material, tests of strength and directions for its use. 8 pp. Illustrated. Size, 3½ x 8¼ in.

Louisville Cement Co., Inc., Louisville, Ky.

311. *Brixment, the Perfect Mortar.* The reading of this little book gives one a feeling that definite valuable information has been acquired about one of the oldest building materials. Modern science has given the mason a strong water-resisting mortar with the desirable "feel" of the best rich lime mortar. 16 pp. Illustrated, in colors. Size, 5½ x 7¾ in.

694. *Brixment for Perfect Mortar.* A description of the chemical and physical properties of Brixment, advantages of its use in mortars for brick and stone masonry, tests of strength and directions for use. In cover for filing. 16 pp. Illustrated. Size, 8½ x 11 in.

The Truscon Laboratories, Detroit, Mich.

920. *Sweep Hardness Into Your Concrete Floors.* Pamphlet of information on Agatex chemical cement floor hardener, with specifications for use. Illustrated. 8 pp. Size, 4 x 9 in.

4. CONCRETE AND MONOLITHIC CONSTRUCTION

Cement-Gun Company, Inc., Allentown, Pa.

1030. *Gunite Bulletins.* A series of bulletins describing the adaptability of gunite, cement-gun product, for a wide range of construction and replacement work of all kinds. Illustrated. Size, 6½ x 9½ in.

Concrete Engineering Co., Omaha, Neb.

347. *Handbook of Fireproof Construction.* An illustrated treatise on the design and construction of reinforced concrete floors with and without suspended ceilings. The Meyer Steel-form Construction is emphasized and tables are given of safe loads for ribbed concrete floors. 40 pp. Illustrated. Size, 8½ x 11 in.

Mitchell-Tappen Company, 16 John St., New York, N. Y.

257. *Booklet 20 on Standardized Metal Caging.* Description of various ways of reinforcing the concrete fireproofing on structural steel work, with particular reference to Standardized Metal Caging.

Portland Cement Association, 347 Madison Ave., New York City.

595. *Concrete Floors—Proposed Standard Specifications of the American Concrete Institute.* Specifications with explanatory notes covering materials, proportions, mixing and curing. Plain and reinforced slabs are covered as well as one and two course floors and wearing courses. 18 pp. Size, 6 x 9 in.

636. *Concrete Data for Engineers and Architects.* A valuable booklet containing the reports of the Structural Materials Research Laboratories at Lewis Institute, Chicago, in abbreviated form. It is of great value to writers of specifications. 18 pp. Illustrated. Size, 8½ x 11 in.

Portland Cement Association, Chicago, Ill.

F-861. *Concrete Floors for Residences.* A folder of information and details of usual types of light reinforced concrete floor construction suitable for residences. 4pp. Illustrated. Size, 8½ x 11 in.

Truscon Steel Company, Youngstown, Ohio.

317. *Truscon Floortyle Construction—Form D-352.* Contains complete data and illustrations of Floortyle installations. 10 pp. Illustrated. Size, 8½ x 11 in.

United States Gypsum Company, 204 West Monroe St., Chicago, Ill.

819. *Sheetrock Pyrofill Construction.* A catalog describing a built-up construction for roofs and floors, consisting of sheetrock; a metal fabric and pyrofill. Details, designing data and specifications. 16 pp. Illustrated. Size, 8½ x 11 in.

5. BRICK WORK

American Face Brick Association, 1754 People's Life Bldg., Chicago, Ill.

371. *Architectural Details in Brickwork. Series One, Two and Three.* Each series consists of an indexed folder case to fit standard vertical letter file, containing between 30 and 40 half-tones in brown ink on fine quality paper. These collections are inspiring aids to all designers. Sent free to architects who apply on their office stationery; to others, 50 cents for each series.

855. *English Precedent for Modern Brickwork.* A book of plates and measured drawings of Tudor and Georgian brickwork with a few recent variations of modern architects in the spirit of the old work. Price \$2.00. 100 pp. Illustrated. Size, 8½ x 11 in.

The Common Brick Manufacturers' Association of America, Guarantee Title Bldg., Cleveland, O.

1011. *Skintled Brickwork.* A valuable brochure illustrating the effects secured by skintled brickwork made of common brick. Close-up views showing working details and general illustrations. Price 15 cents. 16 pp. Illustrated. Size, 8½ x 11 in.

1012. *Hollow Walls of Brick.* A booklet containing general illustrations, detail methods and insulation qualities of hollow walls of brick. 24 pp. Illustrated. Size, 8½ x 11 in.

"The result was we laid Carey Built-up Roofing"

"When the problem of constructing a roof over the Cleveland Public Auditorium confronted me," says J. Harold MacDowell, the architect who designed this magnificent structure, "my first step was to make a thorough investigation of the results which different kinds of roofs were actually giving in Cleveland.

"This investigation included careful inspection of various types of roofs on Cleveland public buildings. The final result was that we laid wooden ribs on the concrete slab, as one would space ribs for copper roofing. Over these we laid Carey Built-up Roofing. After five years

of service this roof has given no trouble whatsoever. Its appearance is such that, from the street, no difference can be detected between this roof and the copper roof of the City Hall opposite.

"I give the credit for this great expanse of roof to the Carey Company, who supplied the materials and applied them."

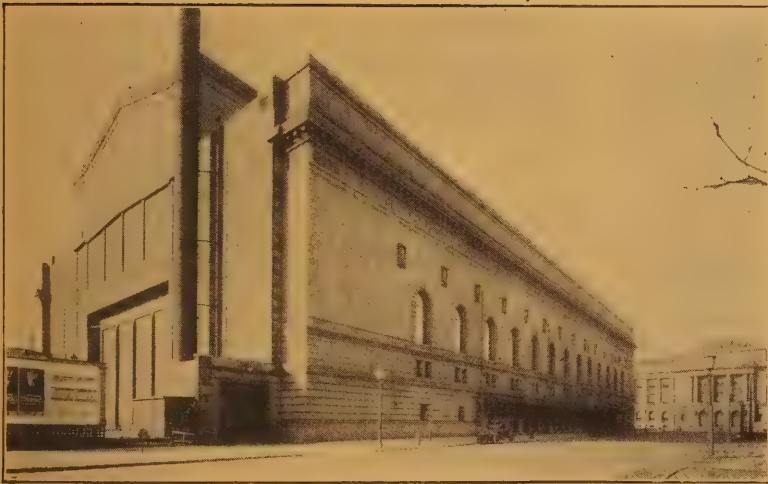
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Carey Built-up Roofs are a quality product through and through. And the results prove it. We take pride in the fact that Carey roofs

put on many years ago are in first-class condition today. Back of every Carey roof are the reputation and experience acquired through 53 years of successful roofing manufacture. Write for complete information.

THE PHILIP CAREY COMPANY

Lockland, Cincinnati, Ohio



The Cleveland Public Auditorium, one of the greatest municipal auditoriums in the country. Designed by J. Harold MacDowell. This building was the scene of the Republican National Convention which nominated the present incumbent of the White House.

Note to architects: A copy of our Architects' Specification Book will be mailed on request.

Carey

BUILT-UP ROOFS

REFERENCE LIST OF BUSINESS LITERATURE—Continued

6. FOUNDATIONS

Raymond Concrete Pile Co., 140 Cedar St., New York.

- 156.** *Raymond Concrete Piles—Special Concrete Work.* A booklet with data concerning the scope of the Raymond Concrete Pile Co., for special concrete work. It classifies piles, showing by illustration, text and drawings, the relative value of special shape and manufacture of piles. It gives formulae for working loads, and relative economy. Size, $8\frac{1}{2} \times 11\frac{1}{2}$. 60 pp.

7. WATERPROOFING AND DAMPPROOFING

The Philip Carey Co., Lockland, Cincinnati, Ohio.

- 1035.** *Carey Waterproofing and Dampproofing Specifications.* A valuable file of eleven specifications for waterproofing and dampproofing various types of structures with different conditions. 44 pp. Illustrated. Size, $8 \times 10\frac{1}{4}$ in.

A. C. Horn Company, Long Island City.

- 972.** *Waterproofings.* A folder containing loose leaf specifications for waterproofings and dampproofings for all places, materials and for all conditions. Also service bulletin. 32 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

L. Sonneborn Sons, Inc., 114 Fifth Ave., New York City.

- 891.** *Dampproofing and Waterproofing. Floor Treatments.* Bulletins of specification data for dampproofing structures and for floor hardening and coloring. Sent on request on business stationery. In folders. Size, $8\frac{1}{2} \times 11$ in.

Truscon Laboratories, Detroit, Mich.

- 955.** *Truscon Waterproofing Specifications, Book "A."* New and revised specifications for waterproofing mass concrete, cement stucco, brick masonry, also dampproofing paints, oil proofings and quick-set for concrete. How to use and quantity required. 26 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

- 967.** *Specifications for Truscon Waterproofing, Dampproofing and Oil Proofing, Book "A."* Complete specifications for all conditions requiring water and dampproofing for concrete, plaster, stucco, stone and other masonry. 14 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

8. STONE WORK

Indiana Limestone Quarrymen's Assn., P. O. Box 503, Bedford, Ind.

- 366.** *Standard Specifications for Cut Stone Work.* This is Vol. III, Series "A-3," Service publications on Indiana Limestone, containing Specifications and Supplementary Data, relating to best methods of specifying and using this stone for all building purposes. This valuable work is not for general distribution. It can be obtained only from a Field Representative of the Association or through direct request from architect written on his letterhead. 56 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

- 845.** *School and College Buildings, Vol. 6, Series B.* A profusely illustrated booklet showing the use of Indiana Limestone in a large number of educational buildings of all kinds and types and in all parts of the United States. 80 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

National Building Granite Quarries Assn., Inc., 31 State Street, Boston, Mass.

- 416.** *Architectural Granite No. 1 of the Granite Series.* This booklet contains descriptions of the various granites used for building purposes; surface finishes and how obtained; profiles of mouldings and how to estimate cost, typical details; complete specifications and 19 plates in colors of granite from various quarries. 16 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

- 914.** *Studies in Granite No. 2 of Series.* A collection of 18 plates of granite details selected from important American buildings. In folder. 18 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

9. ARCHITECTURAL TERRA COTTA

Atlantic Terra Cotta Co., 19 West 44th St., N. Y. C.

- 903.** *Chimney Pots.* A booklet containing details of chimney pots adapted to Colonial, English, Gothic, Tudor and Georgian houses, colored plates, dimensions and specifications. 12 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Atlantic Terra Cotta Co., 19 West 44th St., N. Y. C.

- 1097.** *Modern Romanesque.* No. 6, Vol. VIII, March, 1926. Architectural Terra Cotta Monograph illustrating the Second National Bank Building, Saginaw, Mich., and details of the Farmers Loan & Trust Company Building, New York City. 16 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

National Terra Cotta Society, 19 West 44th St., New York City.

- 664.** *Standard Specifications.* Contains complete detailed specifications for the manufacture, furnishing and setting of terra cotta, a glossary of terms relating to terra cotta and a short form specification for incorporating in architects' specification. 12 pp. Size, $8\frac{1}{2} \times 11$ in.

- 854.** *Color in Architecture.* A revised and permanently bound book with 12 color plates, illustrating early Italian and modern uses of polychrome terra cotta in building construction. Sent free to architects, draftsmen, schools and libraries, requesting same on business letterheads. 64 pp. Illustrated. Size, $9\frac{1}{2} \times 12\frac{1}{4}$ in.

The Northwestern Terra Cotta Co., 2525 Clybourn Ave., Chicago Ill.

- 96.** *Architectural Terra Cotta.* A collected set of advertisements in a book, giving examples of architectural terra cotta, ornamental designs and illustrations of examples of facades of moving-picture houses, office buildings, shops, vestibules and corridors in which Northwestern Terra Cotta was used. Size, $8\frac{1}{2} \times 11$ in. 78 pp.

10. BLOCK CONSTRUCTION

Stockade Building System, Inc., 103 Park Ave., New York City.

- F-869.** *Stockade.* Booklet describing the Stockade System of wall construction, a combination of fibre moulds or blocks and reinforced concrete, including test made at Massachusetts Institute of Technology, standard specifications, details of construction and data. 18 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

11. PAVING

American Three Way-Luxfer Prism Co., 13th Street and 55th Court, Chicago, Ill.

- 424.** *Daylighting.* Catalog 21. A complete catalog on glass prisms for use in transoms, sidewalk and floor lights, skylights, etc., for lighting places inaccessible to direct daylight. Contains also measurements, specifications and other data required by designers. 42 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

12. ROOFING, SHEET METAL AND SKYLIGHTS

American Sheet & Tin Plate Co., Frick Building, Pittsburgh, Pa.

- 452.** *Reference Book. Pocket Edition.* Covers the complete line of Sheet and Tin Mill Products. 168 pp. Illustrated. Size, $2\frac{1}{2} \times 4\frac{1}{2}$ in.

- 463.** *Copper—Its Effects Upon Steel for Roofing Tin.* Describes the merits of high-grade roofing tin plates and the advantages of the copper-steel alloy. 28 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Asbestos Shingle Slate & Sheathing Co., Ambler, Pa.

- F-880.** *Ambler Asbestos Shingle, Types of Roofs.* A. I. A. File No. 12f1. Specifications for a new Ambler Asbestos Shingle made in random widths, broken butts, tapered thickness and "color texture" and Ambler Asbestos Roofing Tile. Illustrations in color. 12 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

John Boyle & Co., Inc., 112-114 Duane St., New York City.

- 212.** *Boyle's Bayonne Roof and Deck Cloth.* List B-93. A prepared roofing canvas guaranteed waterproof for decks and the roofs and floors of piazzas, sun-parlors, sleeping porches, etc.

E. M. Long & Sons, Cadiz, Ohio.

- F-862.** *"Improved" O. G. Fir Gutters.* A booklet describing Fir Gutters, their advantages and instructions for proper installation with detail drawings. 16 pp. Illustrated. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.

The Philip Carey Co., Lockland, Cincinnati, Ohio.

- 378.** *Architects' Specification Book on Built-up Roofing.* A manual for detailers and specification writers. Contains complete details and specifications for each type of Carey Asphalt Built-up Roof. 20 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Copper and Brass Research Association, 25 Broadway, New York.

- 1041.** *Copper Roofings.* Information for architects, including standard details and specifications for the use of copper as a roofing material. 26 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

- 1042.** *Copper Flashings.* A handbook of data on the use of copper as a flashing material with standard details of construction and specifications for sheet-copper work. Second edition dated Feb., 1925. 66 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

The Edwards Manufacturing Company, Cincinnati, Ohio.

- 535.** *Shingles and Spanish Style of Copper.* This book, illustrated in colors, describes the forms, sizes, weights and methods of application of roof coverings, gutters, downspouts, etc., of copper. 16 pp. Illustrated in special indexed folder for letter size vertical files.

Ludowici-Celadon Co., Chicago, Ill.

- 120.** *Roofing Tile.* A detailed reference for architects' use. Sheets of detailed construction drawings to scale of tile sections of various types and dimensions, giving notes of their uses and positions for various conditions of architectural necessity. Size, $9\frac{1}{2} \times 13\frac{1}{2}$ in. 106 plates.

- 154.** *The Roof Beautiful.* Booklet. Well illustrated with photographs and drawings, giving history and origin of roofing tile, and advantages over other forms of roofing. Types shown by detailed illustrations. Size, $8 \times 10\frac{1}{4}$ in. 32 pp.

Milwaukee Corrugating Co., Milwaukee, Wis.

- 815.** *Milcor Architectural Sheet Metal Guide. Catalog No. 24.* A complete catalog of sheet metal ceilings and side walls, zinc and copper ornaments, cornices, skylights, ventilators, gutters, downspouts and roofing tiles. 64 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Mohawk Asbestos Slate Co., Inc., Utica, N. Y.

- 873.** *The Roof Everlasting.* A booklet describing the advantages of the Mohawk tapered asbestos shingle with specifications for installation. 20 pp. Illustrated. Size, $3\frac{3}{4} \times 6\frac{1}{2}$ in.

Rising and Nelson Slate Company, 101 Park Ave., New York, N. Y.

- 496.** *Tudor Stone Roofs.* This leaflet discusses colors and sizes of Tudor hand-wrought slates; deals with the service given to architects and tells how the material is quarried for each product after careful drawing and specifications are prepared in co-operation with architects. Special grades are described in detail and illustrations are given of buildings with Tudor slate roofs. Contains also specifications of laying slate. 4 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

- 571.** *Tudor Stone Roofs.* A brochure describing the 7 special grades of Tudor Stone and the 7 grades of commercial slate produced by this company with illustrations of many structures on which it has been used. 28 pp. Illustrated. Size, $6 \times 9\frac{1}{2}$ in.

REFERENCE LIST OF BUSINESS LITERATURE Continued

12. ROOFING, SHEET METAL AND SKYLIGHTS—Continued.

Vendor Slate Co., Easton, Pa.

332. *The Vendor Book of Roofing Slate for Architects.* Contains original information on slate in various architectural uses; history, geology, sundry practical matters; complete descriptive classification; extended treatise on architectural roof design and specifications. 24 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.
333. Occasional brochures on architecturally pertinent phases of roofing slate sent on request.

13. STRUCTURAL STEEL AND IRON

Bethlehem Steel Co., Bethlehem, Pa.

1080. *Bethlehem Structural Shapes.* Condensed catalog S-16 revised to January, 1925. Explanatory notes and tables of weights, dimensions and properties of Bethlehem girder beams, I-beams, H-columns. Bethlehem columns supplementary sections, reinforced 14-inch H-columns and special compound columns. 36 pp. Illustrated. Size, 4 x $6\frac{1}{2}$ in.
1081. *Bethlehem Standard Structural Shapes.* Shipbuilding shapes and steel plates, condensed catalog S-13. Explanatory notes, standard allowable variations, classification of extras, tables of weights, dimensions and properties of standard I-beams, channels, angles and Z-bars. Tables of sizes and tolerances of Universal plates and sheared plates. 60 pp. Illustrated. Size, 4 x $6\frac{1}{2}$ in.
1082. *Bethlehem Rolled Steel Slabs for Column Bases.* Catalog S-17 revised to December, 1925, general information, instructions for ordering, tables of minimum and maximum rolling lengths for various widths and thicknesses and weights and dimensions of rolled steel slabs for column bases. 12 pp. Illustrated. Size, 4 x $6\frac{1}{2}$ in.

Lally Column Co., Inc., 211-249 Lombardy St., Brooklyn, N. Y.

122. *Lally Columns. Handbook.* Detailed construction diagrams for various types of steel construction. The text describes advantages of endurance and economy of the column. Various tests, tables of sizes, dimensions, weight, carrying capacities, and data on other structural materials are given. Size, $4\frac{1}{4}$ x $6\frac{1}{2}$ in. 81 pp.

14. MISCELLANEOUS STEEL AND IRON

American Abrasive Metals Co., 50 Church St., New York.

1043. *Feralun Anti-Slip Treads.* A circular giving suggested details for the use of anti-slip materials in building construction and detail information for specification writer and drafting room. 4 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Colonial Fireplace Co., 4619 Roosevelt Road, Chicago, Ill.

376. *Blue Print Details.* A valuable set of scale details of correct fireplace construction and examples of details to avoid. Instructions for setting the Colonial head throat and damper. Explanations of necessity for summer use of damper. Folder equivalent to 8 pp. Illustrated. Size, $8\frac{1}{4}$ x $10\frac{1}{2}$ in.

H. W. Covert & Co., 137 East 46th St., New York City.

774. *Fireplace and Flue Construction.* A treatise explaining the elements of fireplace construction with details and dimensions and description of dampers and other accessories. 12 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

The Donley Brothers Co., 13900 Miles Ave., Cleveland, Ohio.

912. *Donley Book of Fireplaces, 3rd Edition.* This book contains designs of fireplaces, valuable construction plans and data and catalog of dampers, grates and accessories. 24 pp. Illustrated. Size, $7\frac{1}{2}$ x $10\frac{1}{2}$ in.

Ferro Studio, Inc., 228 East 150th St., N. Y.

991. *Craftsmanship in Wrought Iron.* A booklet illustrating wrought iron gates, doors, grilles, entrance gates, lanterns, railings, chandeliers, hardware and fireplace fittings. 48 pp. Illustrated. Size, 8 x 11 in.

Edwin A. Jackson & Bro., Inc., 50 Beekman St., New York, also Lexington Ave., at 65th St., New York.

171. Booklet showing general construction and size of chutes to receive coal. Two types are built into the foundation wall with glass panel in place of cellar window; another type is placed flush with the ground, and is placed adjacent to wall, or can be placed near the street curb. Size, $3\frac{1}{2}$ x $6\frac{1}{4}$ in. 16 pp.

823. *Fireplace metal work,* including dampers, ashchutes, ashpit doors, andirons, firetools and spark screens giving dimensions and prices. 16 pp. Illustrated. Size, 8 x 11 in.

The Safety Stair Tread Co., Wooster, Ohio.

828. *The Wear on Stairs.* A catalog describing the properties of white brass, brass and black safety treads for stairs. 12 pp. Illustrated. Size, $3\frac{1}{2}$ x $9\frac{1}{4}$ in.

829. *Wooster Safe Groove Tread.* Catalog describing safe groove treads and thresholds and security nosings, made of white brass, brass and black steel. 4 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Truscon Steel Co., Youngstown, Ohio.

641. *Truscon Steel Joist Data Book.* Complete data of steel joists giving properties, dimensions, safe loads, coefficients of deflection, details of connections, specifications, directions for installations. 32 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

15. ORNAMENTAL METAL WORK AND PHYSICAL PROPERTIES OF METALS

American Brass Co., Main Office, Waterbury, Conn.

138. *Price List and Data Book.* Illustrated. Looseleaf Catalog. Covers entire line of Sheets, Wire, Rods, Tubes, etc., in various metals. Useful tables. Size, $3\frac{3}{8}$ x 7 in. 168 pp.
139. *Illustrated Pamphlets.* Describes the use and adaptability of Extruded Architectural Shapes, Benedict Nickel, Brass and Copper Pipe in Iron Pipe sizes for plumbing installations. Size, $8\frac{1}{2}$ x 11 in.

16. FIRE RESISTING DOORS, WINDOWS AND TRIM

The William Bayley Co., Springfield, Ohio.

- F-866. *Bayley-Springfield Steel Windows.* Catalog G-26. A booklet containing general information relative to steel windows, warehouse stock, mechanical operators and full size details of various types of rolled section steel windows, with a partial list of installations. The booklet is conveniently arranged for the use of architects. 80 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Crittall Casement Window Co., Detroit, Mich.

672. *Crittall Universal Casement, Catalog No. 22.* Contains complete description, photographs, specifications and details of steel casement windows for banks, schools, residences, churches, hospitals, set directly into masonry and with auxiliary frames. 76 pp. Illustrated. Size, 9 x 12 in.

695. *Crittall Solid Steel Reversible Windows. Catalog No. 1-24.* A catalog explaining the advantages of reversible metal windows for office buildings, schools, hospitals and other substantial buildings. Details of construction and specifications. 20 pp. Illustrated. Size, $8\frac{1}{2}$ x $11\frac{1}{2}$ in.

Dahlstrom Metallic Door Co., Jamestown, N. Y.

674. *Architectural Catalog.* Illustrated catalog showing styles and types of Dahlstrom Standard Construction Hollow Metal Doors and Trim. Conduo-Base, etc. Also various types of frames, jamb construction and architectural shapes. 178 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in. in looseleaf.

International Casement Co., Jamestown, N. Y.

834. *International Casements. Catalog No. 7.* A complete catalog, including working details, hardware, screen, specifications and fine illustrations of modern American installations as well as 16th Century Tudor and Jacobean residences in England. 224 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in. Sent to practising architects on receipt of request on business letter-head.

1099. *Cotswold Casements, Catalog No. 10.* Steel casements with steel muntins or leaded lights in standard sizes and designs. Details of hardware, sash and suggested frame details. Schedule of standard sizes. Suggested specifications for the use of architects. 18 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Jamestown Metal Desk Co., Inc., Jamestown, N. Y.

1077. *"Medesco" Hollow Metal Doors and Elevator Enclosures.* Catalog B. Metal door designs, combination buck and jambs, finished steel jambs and mouldings. Detail drawings and sections. A catalog for filing. 32 pp. Ill. Size $8\frac{1}{2}$ x 11 inches.

Wm. H. Jackson Co., 335 Carroll St., Brooklyn, N. Y. C.

1018. *Jackson Windows of Bronze. Catalog No. 21.* Standard bronze solid section double-hung, casement and special windows, details of types, illustrations of installations. 16 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

The Kawneer Company, Niles, Michigan.

933. *Kawneer Windows.* Catalog describing double hung and casement windows made of solid nickel-silver heavy cold rolled mouldings with welded joints. Construction details and specifications. 18 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

958. *Kawneer Solid Nickel Silver Windows.* A catalog describing the construction and installation of Kawneer Solid Nickel Silver Windows in both double hung and casement types. 18 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

David Lupton's Sons Company, Philadelphia, Pa.

953. *Lupton Pivoted Sash, Catalog No. 12-A.* Describing all types of pivoted steel sash operating devices engineering data, specifications and installation directions. 48 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

1051. *How Windows Can Make Better Homes. Publication C-135.* A booklet on the importance of windows and the use of steel casements for all rooms in the house. Illustrations are in color. 12 pp. Illustrated. Size, $3\frac{1}{2}$ x 7 in.

S. H. Pomeroy Co., Inc., 282 East 134th St., New York City.

1019. *Superior Windows.* Catalog of hollow metal double hung windows made of hot dipped galvanized copper-bearing steel. Details and specifications. 12 pp. Illustrated. Size, $6\frac{1}{2}$ x $12\frac{1}{2}$ in.

1020. *Superior Type Double Hung Windows. Bulletin B.* Complete details and specifications of the Superior double hung window of bronze or copper bearing hot dipped galvanized steel. 8 pp. Illustrated. Sizes, $4\frac{1}{2}$ x $10\frac{3}{4}$ in.

Richards-Wilcox Mfg. Co., Aurora, Ill.

796. *Fire Doors and Hardware. Catalog No. A-25.* A catalog of standard, approved tin-clad fire doors, steel frames, automatic door hangers, tracks and fixtures; also hinges, locks and accessories. Details, dimensions and installation diagrams. 96 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

16. FIRE RESISTING DOORS, WINDOWS AND TRIM—Continued.

- The Sykes Company**, 2300 W. 58th St., Chicago, Ill.
978. *Integral Steel Door Buck and Trim. Specification No. 184 and Folder No. 234.* Specifications and details for four types of steel door bucks and trim. Each 4 pp. Illustrated. Size, 8½ x 11 in.
979. *Sykes Steel Integral Door Buck and Trim. Booklet No. 34.* Describing an improved construction, method of installation and Sykes Hollow Metal Doors. 8 pp. Illustrated. Size, 6 x 9 in.
- Thorp Fire Proof Door Co.**, 1600 Central Ave., Minneapolis, Minn.
1029. *Thorp Reference Book of Fireproof Doors.* A book containing details of construction, working drawings and specifications of first quality fireproof doors, partitions and interior trim. Full size moulding sections. Details of important executed work. 96 pp. Illustrated. Size, 8½ x 11 in.
- Truscon Steel Co.**, Youngstown, Ohio.
348. *Truscon Steel Sash.* This handbook has been prepared for detailers and specification writers. The descriptions are clear and the details are complete. 80 pp. Illustrated. Size, 8½ x 11 in.
988. *The Donovan Awning Type Steel Window.* A catalog containing details, specifications and complete description of the working and advantages of the Truscon-built Donovan Awning Type Window especially adapted for schools, hospitals and other buildings. 12 pp. Illustrated. Size, 8½ x 11 in.
- The United Metal Products Co.**, Canton, Ohio.
968. *Architects' Handbook.* A very fine catalog of hollow metal doors, metal partitions, metal bucks and jambs, metal conduso-base, and metal mouldings. 108 pp. Illustrated. Size, 8½ x 11 in.

17. SPECIAL DOORS AND WINDOWS

- Irving Hamlin**, 1500 Lincoln St., Evanston, Ill.
735. *The Evanston Sound-Proof Door: also The Hamlinized Folding partitions.* A circular explaining the construction of a sound-proof door and folding partitions hermetically sealed against odors, dust, light, weather and air, especially adapted to music schools, hospitals, etc. 8 pp. Size, 8½ x 11 in.
907. *The Evanston Sound-Proof Door.* A catalog giving details and hardware equipment of sound, odor, dust and air proof doors for hospitals and music schools. Also Hamlinized folding partitions for churches, Sunday Schools and Public Schools. 10 pp. Illustrated. Size, 8½ x 11 in.

18. VAULTS AND SAFES

- The River-Grip Steel Co.**, 2735 Prospect Ave., Cleveland, Ohio.
768. *The Rivet-Grip System of Bank Vault Reinforcement.* This handbook explains the fundamentals of bank vault design and the advantages of the Rivet-Grip System of Reinforcement. Details of vertical and horizontal types, specifications and installations. 34 pp. Illustrated. Size, 8½ x 11 in.

19. CARPENTRY

- Andersen Lumber Company**, Bayport, Minn. (formerly South Stillwater).
559. *Complete Catalog for Architects and Builders.* Describes Andersen Standard Window Frames and Cellar Sash Frames, which are in 7 units instead of 57 and may be assembled and nailed in 10 minutes. Shows uses in special construction for it comes in 121 sizes and styles. 24 pp. Illustrated. Size, 7¼ x 10¼ in.
- The Bessler Disappearing Stairway Co.**, Akron, Oio.
541. *The Modern Way Up.* A book describing a stairway that helps utilize attic space. It folds up in the ceiling and is concealed when not in use. Letters are given from contented users. 24 pp. Illustrated. Size, 4¼ x 7¼ in.
- E. L. Bruce Co.**, Memphis, Tenn.
1083. *Oak Flooring Specification Manual.* A filing folder, A. I. A. File No. 19e9, containing grading rules; uses of different grades; Standard sizes; laying instructions; methods of scraping and suggested specification form. 16 pp. Size, 8½ x 11 in.
- California White and Sugar Pine Manufacturers Association**, 690 Call Building, San Francisco, Calif.
875. *Information Sheets.* These sheets, with folder, contain information, illustrations and data pertaining to the use of California White and Sugar Pine in building construction. Size, 8½ x 11 in. In folder.
- The Celotex Co.**, 645 North Michigan Ave., Chicago, Ill.
- F-842. *The Hidden Comfort of Costly Homes.* A booklet describing the use of Celotex for insulation, sheathing, partitions, etc., of all classes of houses. 22 pp. Illustrated. Size, 8½ x 11 in.
- Chamberlain Metal Weather Strip Co.**, 1644 Lafayette Boulevard, Detroit, Mich.
918. *Excluding Cold and Dust.* A booklet describing the dust and weather proofing of doors and windows. 16 pp. Illustrated. Size, 5 x 7½ in.
919. *Chamberlain Metal Weather Strip Details.* A catalog containing valuable details of the installations of Chamberlain Metal Weather Strips of all kinds of windows and doors. A draughting table book. 48 pp. Illustrated. In folder. Size, 8¼ x 10¼ in.
- Curtis Companies Service Bureau**, Clinton, Iowa.
663. *Keeping Down the Cost of Your Woodwork.* A book illustrating Curtis interior woodwork and built-in cabinets and fixtures designed by Trowbridge and Ackerman, Architects, New York. Colored illustrations and details. 16 pp. Illustrated. Size, 7 x 9¼ in.
926. *Curtis Woodwork.* A valuable booklet presenting the entire line of woodwork such as entrances, doors, windows, exterior mouldings, stairs and permanent furniture. Sent on request. 40 pp. Illustrated. Size, 9 x 12 in.

The Diamond Metal Weatherstrip Co., Columbus, Ohio.

616. *The Diamond Way.* A catalog of full size details showing the application of Diamond metal weather strips to double hung and casement windows and doors with complete specifications. 34 pp. Illustrated. Size, 8½ x 11 in.

Dierks Lumber & Coal Co., Kansas City, Mo.

1059. *Interior Trim.* Booklet illustrating in color and describing the use of soft pine for interior mill-work throughout the house. 16 pp. Illustrated. Size, 8 x 10 in.

Hardwood Manufacturers Institute, Memphis, Tenn.

- F-881. *The Charm of the Sovereign Wood.* By J. H. Townshend. Traces oak from the tree in the forest to its manufacture into lumber, the use of oak from biblical days to the twentieth century for structural and finishing purposes. The use of oak for furniture is classified by periods. Illustrated with photographs and sketches. 88 pp. Illustrated. Size, 7¼ x 10¼ in.

Hartmann-Sanders Company, 6 East 39th St., New York City.

334. *Catalog No. 47.* Illustrating Kell's Patent Lock Joint wood stave columns for exterior and interior use. 48 pp. Illustrated. Size, 7½ x 10 in.

The Higgin Manufacturing Co., 5th and Washington Ave., Newport, Ky.

353. *Screen Your Home in the Higgin Way.* A description of Higgin door and window screens with practical data. 16 pp. Illustrated. Size, 8½ x 11½ in.

Edwin A. Jackson & Bro., Inc., 50 Beekman St., New York, also Lexington Ave., at 65th St., New York City.

90. *Wood Mantels. Portfolio.* Wood mantel designs of various types and openings, giving dimensions, projections and showing fireplace grate designs. Size, 9 x 6¼ in. 32 pp.

The Long-Bell Lumber Co., R. A. Long Building, Kansas City, Mo.

204. *The Perfect Floor.* Tells how to lay finish and care for Oak Flooring. 16 pp. 14 illustrations. Size, 5½ x 7½ in.

McKeown Bros. Co., 21 East 40th St., New York City.

434. *Clear Floor Space.* A folder showing uses and advantages of McKeown "Lattis" and "Bowstring" long span wood roof trusses. 4 pp. Illustrated. Size, 8½ x 11 in.

Monarch Metal Products Co., 5020 Penrose Street, St. Louis, Mo.

820. *Monarch Metal Weather Strip Manual.* This new manual contains the latest data on the subject of air infiltration through doors and windows with details and specifications for the installation of Monarch Metal Weather Strips. 44 pp. Illustrated. Size, 8½ x 11 in.

Red Cedar Lumber Manufacturers Association, Seattle, Wash.

- F-864. *Specifications and Grading Rules, Western Red Cedar.* Filing folder containing standard grading rules and memorandum for architects' specifications for the use of Red Cedar. 8 pp. Size, 8½ x 11 in.

- F-865. *Western Red Cedar.* Its characteristics and uses. Filing folder describing the characteristics and uses of Red Cedar with valuable notes and tables. 12 pp. Illustrated. Size, 8½ x 11 in.

Roddis Lumber and Veneer Co., Marshfield, Wisc.

1068. *Roddis Doors, Catalog G.* Describes the construction and standard design of Roddis doors. 182 pp. Illustrated. Size, 8½ x 11 in.

1069. *Roddis Doors for Hotels, Hospitals, and Roddis "Fourteen-Seventy-Five" Flush Doors.* Three booklets describing and illustrating standard door designs. Each 14 pp. Illustrated. Size, 8½ x 11 in.

G. E. Walter, 157 East 44th St., New York City.

966. *Compo Ornament for Exterior and Interior Decoration.* An extensive catalog of capitals, brackets and compo ornament in all periods and styles also made in Duretta fireproof composition. 125 pp. Illustrated. Size, 8¼ x 11½ in.

Watson Manufacturing Co., Jamestown, N. Y.

737. *Watson Insect Screens.* Reprint of space in Sweet's Catalog giving illustrations and detailed data for the use of architects. 21 pp. Illustrated. Size, 8½ x 11 in.

J. G. Wilson Corp., 11 East 38th St., New York City.

760. *Sectionfold and Rolling Partitions. Hygienic School Wardrobes Catalog 37.* This catalog illustrates the construction and details of the partitions and wardrobes with plans for and photographs of installations. 40 pp. Illustrated. Size, 8½ x 11 in.

20. FURRING AND LATHING

American Steel & Wire Co., Chicago, Ill.

228. *Stucco Homes Reinforced With Triangle Mesh Fabric.* A pamphlet containing valuable data on stucco work with tables of qualities of material and many illustrations of houses covered with stucco applied on Triangle Mesh Fabric. 24 pp. Illustrated. Size, 6 x 9 in.

The Bishopric Manufacturing Co., 216 Este Ave., Cincinnati, Ohio.

- F-873. *Looking Behind the Stucco.* Booklet illustrating and describing the advantages and use of Bishopric stucco base of keyed creosoted wood lath with waterproof fibre board backing. 18 pp. Illustrated. Size, 8¼ x 10¼ in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

20. FURRING AND LATHING—Continued

The Bostwick Steel Lath Co., Niles, Ohio.

F-877. Bostwick Economy. Booklet describing the advantages and economy of Bostwick metal lath. Details and specifications for various uses of metal lath. 30 pp. Illustrated. Size, $7\frac{1}{2}$ x 9 in. The Bostwick News issued to promote better relations of architects, dealers, manufacturers, contractors and owner.

916. Bostwick Metal Lath. Leaflets describing the various types of metal lath, metal grounds, invisible picture moulding, expanded metal, corner heads, wall plugs and wall ties. 8 leaflets, 2 and 4 pp. Illustrated. Size, $3\frac{1}{4}$ x $6\frac{1}{4}$ in.

Concrete Engineering Co., Omaha, Neb.

346. How to Use Ceco Lathing Materials. An illustrated treatise on the use of expanded metal lath. Contains construction details and complete specifications, with sample piece of lath in pocket on cover of book. 16 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Milwaukee Corrugating Co., Milwaukee, Wis.

838. The Milcor Manual, Catalog No. 20. A data book for designing the use of expanded metal lath, expansion cornerheads and casings, steel floor domes and other fireproof building products. Specifications and details. 64 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Truscon Steel Company, Youngstown, Ohio.

316. Hy-Rib and Metal Lath. Tables, general data and illustrations of Hy-Rib and metal lath constructions. 6 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

21. PLASTERING

The Bishopric Mfg. Co., 216 Este Ave., Cincinnati, Ohio.

839. Bishopric Sunfast Finish. A folder illustrating and describing a color and damp-proof coating applicable to new and old stucco surfaces. Illustrated with color plates. 16 pp. Illustrated. Size, $3\frac{1}{2}$ x $6\frac{1}{4}$ in.

F-872. The Renaissance of Colored Stucco. Booklet illustrated in color, showing application to typical residences and panels of possible color schemes obtainable with Bishopric stucco. Text describes advantages and includes comment of architects, owners and builders. 18 pp. Illustrated. Size, $8\frac{1}{4}$ x $10\frac{1}{2}$ in.

Palmer Lime & Cement Co., 103 Park Ave., New York City.

938. French Imported Caen Stone Cement. A catalog describing the material and its properties, illustrations of its application in important buildings, specifications and instructions. 20 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Portland Cement Association, 347 Madison Ave., New York City.

594. Portland Cement Stucco. Illustrated leaflet of recommended practice for Portland Cement Stucco. Contains data on materials, proportions, application and curing. Table of colors for various tints, photographs of surface textures and drawings of construction details also given. 15 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

The Rochbond Co., Van Wert, Ohio.

1056. Standard Specifications for Stucco Work. Application of Rochbond for exterior work on wood lath, metal lath, patented basis and masonry. Specifications for over coating old frame and masonry. 3 pp. Size, 8 x 11 in.

United States Gypsum Co., 205 West Monroe St., Chicago, Ill.

911. Oriental Stucco. A booklet describing the use of Oriental Stucco with specifications and especially embossed pages showing different surface textures in colors. 10 pp. and 10 plates. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

22. MARBLE AND SLATE

The Georgia Marble Co., Tate, Pickens Co., Ga., New York Office, 1328 Broadway.

634. Why Georgia Marble is Better. Booklet, $3\frac{3}{4}$ x 6 in. Gives analysis, physical qualities, comparison of absorption with granites, opinions of authorities, etc.

Marietta Manufacturing Co., Indianapolis, Ind.

F-874. The Story of Sani Onyx. A vitreous marble for hospitals. Booklet descriptive of Sani Onyx, its characteristics, colors, installation and various uses. Specifications and detail drawings. 32 pp. Illustrated. Size, 8 x $10\frac{1}{2}$ in.

The Vitrolite Company, General Offices: 133 W. Washington St., Chicago; Factory: Parkersburg, W. Va.

1006. Vitrolite Slab Material. Catalogs describing the use of Vitrolite for use as wainscoting, wall covering, toilet room stalls, counter fronts and all slab uses in schools, universities, retail stores, hospitals, hotels, clubs, office buildings, homes and apartment buildings. Special catalog for each purpose. 8 and 16 pp. Illustrated. Size, 8 x 11 in.

1087. Color Chart of Decorated Vitrolite. Chart, in ten colors, of ornamental border, pilaster and spot designs, prepared by the Vitrolite Company Art Department and carried in stock for decorating Vitrolite installations in bathrooms, toilet rooms, lobbies, corridors, restaurants, kitchens, etc. 6 pp. Illustrated. Size, 8 x 11 in.

1088. Vitrolite in Public Buildings and Office Structures. Catalog showing use of Vitrolite in libraries, clubs, churches, Y. M. C. A. and Y. W. C. A. buildings, office structures and public buildings generally, for wainscoting, halls, corridors, lobbies, washrooms and toilets, lunchrooms, dining rooms, barber shop, offices, etc., in plain and decorated Vitrolite. 11 pp. Illustrated. Size, 8 x 11 in.

23. FLOOR AND WALL TILE AND ACCESSORIES

American Rubber Products Corp., Jersey City, N. J.

F-871. Rubberock—The Lifetime Rubber Flooring. Advantages of Rubberock described, including list of standard patterns, list of sizes and specifications. Filing Folder A. I. A., No. 23-C. Illustrated. Size, $8\frac{1}{2}$ x $11\frac{1}{2}$ in.

Armstrong Cork and Insulation Co., Pittsburgh, Pa.

901. Linotile Floors and Cork Tile Floors. Catalog 07 describing Linotile floors for residences and Catalog 08 describing Linotile floors for public and semi-public buildings, both with colored charts; Catalog Q-4 describing Armstrong's Cork Tile floors for all purposes. 26, 36 and 30 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Bonded Floors Co., Inc., Division of Congoleum-Nairn, Inc., 1421 Chestnut St., Philadelphia, Pa.

936. The "Distinctive Floors" Series. Three pamphlets, illustrated in color, describing (1) Battleship Linoleum; (2) Treadlite Tile; (3) Natural Cork Tile. Each 8 pp. Size, $7\frac{3}{4}$ x $10\frac{1}{4}$ in.

937. Practical Working Specifications. Specifications and installation details of Battleship Linoleum, Treadlite Tile and Cork Tile. Each 1 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

997. Gold Seal Treadlite Tile. Six color pattern sheets illustrating the wide range of colors, combinations and use of Treadlite Tiles. 6 sheets. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

United States Rubber Co., 1790 Broadway, New York City.

959. Period Adaptations for Modern Floors. This book illustrates the adaptability of "U. S." Tile floors to the different periods of architectural styles and also its use in a wide range of modern buildings. Price, \$1.00. 60 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

24. PLASTIC FLOORS

The Duraflex Company, Baltimore, Md.

782. Duraflex. Catalog with description and specifications for a permanent wearing surface for all floors and stair treads, except heavy-duty factory or shop floors and those subject to the action of oils and greases. 44 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Franklyn R. Muller, Inc., Waukegan, Ill.

242. Asbestone Flooring Composition. A book describing uses of and giving specifications and directions for Composition Flooring, Base, Wainscoting, etc. Size, $8\frac{1}{2}$ x 11 in. Illustrated.

25. PAINT, PAINTING AND FINISHING

Aluminum Company of America, New Kensington, Pa.

1037. Aluminum Paint. A treatise on the physical properties of aluminum paint and its uses in modern industry. 20 pp. Illustrated. Size, $5\frac{1}{4}$ x $5\frac{1}{4}$ in.

1061. Aluminum Paint Manual. A booklet on selecting the proper paint, how to prepare it and how to use in on metal, wood or concrete. 14 pp. Size, 4 x $6\frac{1}{4}$ in.

Samuel Cabot, Inc., 141 Milk St., Boston, Mass.

341. Cabot's Old Virginia White and Tints. Describes a specially prepared "flat" white which architects say gives "the whitewash white effect." Also describes tints perfectly flat in tone, giving the "pastel effect." Used on wood, brick, stone, and stucco. 16 pp. Illustrated. Size, 4 x $8\frac{1}{4}$ in.

Craftex Company, 146 Summer St., Boston, Mass.

1001. Craftex. A circular describing a textural wall finish applied with a brush. Large range of finishes and colors. 4 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

1002. Notes on Using Craftex. Directions for preparing and using Craftex on various wall surfaces and finishes. 5 pp. Illustrated. Size, $8\frac{1}{2}$ x 11 in.

Joseph Dixon Crucible Co., Jersey City, N. J.

324. Dixon's Silica Graphite Paint. A pamphlet describing the physical properties of silica-graphite paint and especially the wide difference between it and other protective paints. Contains also sample color card with specifications. 20 pp. and 6 pp. in color card. Illustrated. Size, $3\frac{1}{4}$ x $6\frac{1}{4}$ in.

The Glidden Company, Cleveland, Ohio.

419. Architectural Specifications Book— $8\frac{1}{4}$ x $10\frac{3}{4}$ in. 32 pp. Containing complete architectural specifications and general instruction for the application of Glidden Paints and Varnishes, including Ripolin. Directions for the proper finishing of wood, metal, plaster, concrete, brick, and other surfaces, both interior and exterior, are included in this specification book.

A. C. Horn Co., Long Island City, N. Y.

971. Horn's House Paints. Catalogs and color cards of paints for exterior wood work, porch and deck paints, shingle and stucco paints and china flat oil paints. 18 pp. Illustrated. Size, $3\frac{1}{2}$ x $6\frac{1}{4}$ in.

National Lead Company, 111 Broadway, New York City.

389. "White-Lead Paint." Color folder for glass finish and flat finish together with useful notes on painting and a collection of approximate formulas for obtaining the colors shown on the color folder. 8 pp. Illustrated. Size, $3\frac{3}{4}$ x $8\frac{1}{2}$ in.

894. Handy Book on Painting. A handbook containing complete directions for the mixing and application of paints for all purposes. A most useful book. 124 pp. Size, $8\frac{1}{4}$ x $5\frac{1}{2}$ in.

Peaslee-Gaulbert Company, Louisville, Ky.

909. Architects' Specification Chart. A series of 100 specifications for exterior and interior painting and finishing on all kinds of materials. 87 pp. Size, $8\frac{1}{2}$ x $11\frac{1}{2}$ in.

910. Interior Decoration. Wood Finishing. House Painting. Three catalogs containing colored combination charts for paints, stains and wall finishes. 20, 20 and 24 pp. Illustrated. Size, 9 x 12, $6\frac{1}{2}$ x $8\frac{1}{2}$, and 7 x 9 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

25. PAINT, PAINTING AND FINISHING—Continued.

Pratt & Lambert, Inc., Buffalo, N. Y.

759. Specification Manual for Painting, Varnishing and Enameling. Complete specifications for painting, varnishing and enameling interior and exterior wood, plaster and metal work. 38 pp. Size, 8½ x 11 in.

The Sherwin-Williams Co., Cleveland, Ohio.

1045. Painting and Varnishing Specifications. A book of specifications, with color cards, for painting, enameling, staining and varnishing every kind of exterior and interior surfaces, roofs, furnishings, metal work, structural steel, dampproofing and wood preserving. 44 pp. Illustrated. Size, 8½ x 11 in.

L. Sonneborn Sons, Inc., 114 Fifth Ave., New York City.

892. Interior and Exterior Painting and Structural Painting. Bulletins of specifications for interior and exterior paints, and paints for structural work, technical paints and roof protection. Sent on request on business stationery. In folders. Size, 8½ x 11 in.

The Truscon Laboratories, Detroit, Mich.

921. Assortment of Color Cards. Information and specifications on the following materials: Bar-Ox Inhibitive Steel Paint—3¼ x 6¼ in. 4 pp. Aseptico Interior Flat Wall Paint 8 pp. 3¼ x 8¼ in. Stone-Tex Exterior Masonry Paint. 8 pp. 3½ x 6¼ in. Waterproof Enamels, 4 pp. 3½ x 6¼ in. Waterproof House Paint, 8 pp. 3¼ x 8¼ in. Waterproof Varnish. 8 pp. 3½ x 6¼ in. Illustrated.

26. GLASS AND GLAZING

Detroit Show Case Co., Detroit, Mich.

77. Designs. A Booklet. Store fronts and display windows designs, giving plans and elevations and descriptions. Size, 9½ x 12 in. 16 pp.

78. Details. Sheets of full size details of "Desco" awning transom bar covers, sill covers, side, head and jamb covers, ventilated hollow metal sash and profile of members. Size, 16 x 21½ in. 3 sheets.

The Kawneer Company, Niles, Mich.

956. Kawneer Solid Copper Store Front Construction Catalog L. 1925 Edition. A treatise on the installation of Kawneer solid copper store fronts, with sectional and detail views of sash, corner and division bars, jambs, sills and transom bars. 32 pp. Illustrated. Size, 8½ x 11 in.

Mississippi Wire Glass Co., 220 Fifth Ave., New York City.

1015. Mississippi Service. A complete catalog illustrating the wire glass products and their adaptability for various uses. Technical data and sizes. 32 pp. Illustrated. Size, 4 x 8½ in.

1016. Factrolited. Circular showing tests of light distribution through "Factrolite" wire glass for industrial plants. Also fire resisting qualities. 4 pp. Illustrated. Size, 6 x 9 in.

27. HARDWARE

The T. J. Callahan Co., 205 Apple St., Dayton, Ohio.

842. Callahan Sash Control. Bulletin (1) Sash Control in Power Plants; (2) Sash Control in Industrial Plants; (3) Simplifying Sash Control; and (4) Sash Control for Gymnasiums and Halls. Each 8 pp. Illustrated. Size, 8½ x 11 in.

861. Callahan Catalog Bulletins. Bulletins of sash operators for side walls, etc. Size, 8½ x 11 in.

P. & F. Corbin, New Britain, Conn.

540. Automatic Exit Fixtures. A catalog of fixtures that provide a ready exit at all times, as a child can operate them with ease. Doors to which they are applied can always be opened from the inside, even when locked against entrance. 4 pp. Illustrated. Size, 8¼ x 11¼ in.

McKinney Manufacturing Co., Forge Division, Pittsburgh, Pa.

F-876. Forged Iron Hardware. Booklet illustrating and describing forged iron strap hinges, latch sets, knockers, handles, hinge plates, bolts, etc. 24 pp. Illustrated. Size, 8½ x 11 in.

Monarch Metal Products Co., 5020 Penrose St., St. Louis, Mo.

975. Monarch Casement Hardware. Catalog illustrating casement window control locks, stays and checks, also checks for transoms. Dimensions and details for installation. 21 pp. Illustrated. Size, 8½ x 11 in.

Richards-Wilcox Mfg. Co., Aurora, Ill.

897. Special Purpose Hinges, Catalog No. 42. Devoted exclusively to special purpose hinges for every purpose. Hinge problems solved by Engineering Department, catalog sent on request. 26 pp. Illustrated. Size, 8½ x 11 in.

939. Big Door Hardware Catalog No. 41. This catalog describes a complete line of hardware and hangers for accordion, parallel sliding, vertical bi-folding and other types for large openings in round houses, freight houses, shipping rooms, mills and warehouses. Also overhead trolley equipment. 24 pp. Illustrated. Size, 8½ x 11 in.

940. Sliding and Folding Partitions Door Hardware. Catalog No. 40. A complete line of hardware for partition doors of all kinds and for all places. Description, details and directions for ordering. 32 pp. Illustrated. Size, 8½ x 11 in.

988. Singleknob Garage Door Controller. Catalog describing garage door operator by which one or both of a pair of doors can be opened and held in that position. 4 pp. Illustrated. Size, 8 x 11 in.

The Stanley Works, New Britain, Conn.

11. Wrought Hardware. This catalog describes additions to the Stanley line of Wrought Hardware, as well as the older well-known specialties and various styles of butts, hinges, bolts, etc. 376 pp. Illustrated. Size, 6½ x 9½ in.

12. Garage Hardware, Booklet, illustrated. Garages and their equipment, such as hinges, hasps, door holders, latch sets, chain and hand bolts, showing illustrations and text with dimensions of garages, describing the Stanley works product. Size, 6 x 9 in. 24 pp.

495. Stanley Detail Manual. A catalog in looseleaf binder, consisting of five sections on Butts, Bolts, Blinds and Shutter Hardware. Stanley Garage Hardware, Screen and Sash Hardware. Detail drawings are given, showing clearances and other data needed by detailers. 116 pp. Illustrated. Size, 7½ x 10½ in.

Steffens Amberg Co., 262 Morris Ave., Newark, N. J., successors to Frank F. Smith Hardware Co.

851. Panic Exit Locks, Catalog No. 20. A catalog describing panic exit locks of the gravity, mortise and horizontal rim types. Details, dimensions, specifications and installation data. 32 pp. Illustrated. Size, 8½ x 11 in.

Vonegut Hardware Co., Indianapolis, Ind.

310. Prince Self-Releasing Fire Exit Device. Supplement to Von Duprin Catalog No. 12. Contains valuable information for architects on the selection, detailing, etc., of Prince devices for doors and windows to insure safety against fire panic. 32 pp. Illustrated. Size, 8 x 11 in.

747. Von Duprin Self-Releasing Fire Exit Latches, Reference Book—No. 240. A complete catalog with details of the working part of these latches, handle bars, butts, door holders and accessories. Dimensions and installation direction. 96 pp. Illustrated. Size, 8½ x 11 in.

28. FURNISHINGS

American Seating Co., 14 East Jackson Blvd., Chicago, Ill.

869. Assembly Chairs. Three catalogs illustrating all types of portable and fixed assembly chairs and seats, including tablet arm chairs, for all kinds of places and uses. 32, 16 and 33 pp. Illustrated. Size, 6 x 9 in.

898. School Furniture, Catalogs 255 and 56. Catalogs illustrating school house seating (No. 255), and a complete line of school-house furniture and supplies (No. 56). 32 and 104 pp. Illustrated. Size, 8½ x 11 and 6 x 9 in.

Armstrong Cork Co., Lancaster, Pa.

880. Business Floors, Third Edition. This valuable booklet is devoted to the use of linoleum for floors in business places and shows many designs by colored plates. Installations and cover of these floors is fully described. 48 pp. Illustrated. Size, 6¼ x 9½ in.

881. Armstrong's Linoleum Floors, Fourth Edition. Complete specifications and details for the installation of linoleum floors in all kinds of buildings and for all uses, also plates showing designs in color. 86 pp. Illustrated. Size, 8½ x 11 in.

Bonded Floors Co., 1421 Chestnut St., Philadelphia, Pa.

716. Gold Seal Battleship Linoleum. An illustrated booklet showing Gold-Seal Battleship Linoleum, installations, reproductions of the products in color, general information, specifications, etc. 8 pp. Illustrated. Size, 7¼ x 10¼ in.

719. Linoleum. A standard specification of the material, workmanship and guarantee, with valuable comments and suggestions. Also additional clauses for insertion in specifications for Masonry, Heating, etc., Federal Department specifications for Battleship linoleum and details of installation. 8 pp. Illustrated. Size, 8½ x 11 in.

936. Linoleum Specifications. Standard specifications for the installation of Battleship linoleum with detailed description and explanation. Also includes Federal Government Specification No. 209. 8 pp. Illustrated. Size, 8½ x 11 in.

Hardwick & Magee Company, 1220 Market St., Philadelphia, Pa.

826. Fine Carpets in Famous Places. A beautifully illustrated catalog describing the varieties of the Hardwick and Magee Co.'s Wilton carpets and rugs for hotels, theatres, lodge halls, clubs, churches, hospitals and railroad cars. 24 pp. Illustrated. Size, 8 x 10½ in.

1098. Cameo Wilton Rugs. Color plates of unusual small rugs in round, oval and half-oval shapes. Excellent in design, shape and color. Ten plates in color. Size, 7¼ x 10½ in.

The Hart & Hutchinson Co., New Britain, Conn.

1038. Veneer Steel. A folder showing construction details typical groupings of standard Veneer-Steel Units for toilets, showers and dressing room compartments, screens and coupon booths, and suggested specifications. 6 pp. Illustrated. Size, 8½ x 10¼ in.

Kent-Costikyan, 585 Fifth Ave., New York City.

954. The House of Kent-Costikyan. A booklet describing the various types and grades of carpets and rugs, including antique rugs of the Isfahan and Kuba types, in the extensive stocks of this company. 16 pp. Illustrated in color. Size, 5½ x 8 in.

The Lincrusta-Walton Company, Hackensack, N. J.

519. Lincrusta-Walton. This book gives directions for buying, caring for and applying Lincrusta-Walton; together with color chart and many pages showing patterns. 67 pp. Size, 8½ x 11 in. Illustrated. Bound in boards.

David Lupton Sons Co., Philadelphia, Pa.

963. Lupton Steel Equipment, Catalog D. Illustrating with details of all kinds of steel shelving for display and storage in factories, stores and offices and cabinets, desks, benches and tool boxes. 40 pp. Illustrated. Size, 8½ x 11 in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

28. FURNISHINGS—Continued

The B. L. Marble Chair Co., Bedford, Ohio.

973. Office Chairs, Catalog No. 32. Revised and enlarged catalog of chairs for lodges, court rooms, directors' rooms, every kind of office chairs, costumers', waste boxes, settees and accessories. 88 pp. Illustrated. Size, $9\frac{1}{4} \times 12$ in.

Charles D. Poulson Co., 295 Fifth Ave., New York City.

1062. Character in Carpet. A booklet illustrated in color and descriptive of Claridge wide seamless carpet and "Hermitage" high pile Wiltons. 22 pp. Illustrated. Size, $9\frac{1}{2} \times 12\frac{3}{4}$ in.

Stewart Hartshorn Co., 250 Fifth Ave., New York City.

1039. Hartshorn Shade Rollers. Sizes and description of spring rollers of wood and metal, and brackets. Methods of hanging window shades, window and store awnings, and veranda rollers. 32 pp. Illustrated. Size, $5\frac{1}{4} \times 8$ in.

The Vitrolite Co., Chamber of Commerce Bldg., Chicago, Ill.

1007. Vitrolite Slab Material. Catalog showing the use of Vitrolite for table and counter tops, counter fronts and bases for industrial buildings, laboratories, stores and restaurants. Special catalogs for each purpose. 8 and 16 pp. Illustrated. Size, 8×11 in.

Wallpaper Manufacturers Association of the United States, 461 Eighth Ave., New York City.

913. Wallpaper Magazine. A monthly publication for architects, building contractors and wallpaper dealers to acquaint them with the many interesting and artistic uses for wallpaper. 32 pp. Illustrated. Size, 8×11 in.

Watson Manufacturing Co., Jamestown, N. Y.

788. Watson Metal Office Furniture. Catalog describing steel furniture for offices, banks and public buildings. Installations illustrated. 55 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Henry Weis Manufacturing Co., Atchison, Kansas.

790. WeiSteel Compartments, Catalog No. 11. Plans, specifications and details of metal partitions and doors for toilet rooms, shower and dressing rooms, hospital cubicles and enclosures of all kinds. 32 pp. Illustrated. Size, 8×11 in.

29. PLUMBING

W. D. Allen Mfg. Co., 566 West Lake St., Chicago, Ill.; 69 Warren St., New York City.

809. Standpipe Detail and Specification. A series of plates illustrating fire hose cabinets, and specifications and illustrations of standpipes, hose racks, Siamese and other valves, hose and accessories. 13 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

American Brass Co., Waterbury, Conn.

862. Brass Pipe for Water Service, Publication B-1. A compilation of data on corrosion of various kinds of pipe and the value of Anaconda Brass Pipe for permanent service, also comparative cost estimates. 31 pp. Illustrated. Size, $8\frac{1}{4} \times 11$ in.

American Radiator Co., Buffalo, N. Y.

F-863. Instant Hot Water. Arco tank water heaters for coal or gas. Booklet describes a newly developed domestic hot water supply tank and heater with piping diagrams, measurements and data for architects. 24 pp. Illustrated. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.

J. H. Balmer Co., 259 Plane St., Newark, N. J.

1028. China Necessities. Catalog of bath room accessories consisting of towel racks; shelves; tooth brush, tumbler and soap holders, hand rails, hooks and paper holder. 24 pp. Illustrated. Size, $5\frac{1}{2} \times 8\frac{1}{2}$ in.

The Beaton & Cadwell Mfg. Co., New Britain, Conn.

813. "Genuine" Perfection Line, Catalog No. 7. A catalog describing a complete line of Simplex Flush valves, automatic air valves, floor and ceiling plates, towel bars, pipe hangers and accessories. 90 pp. Illustrated. Size, 4×6 in.

A. M. Byers Company, Pittsburgh, Pa.

679. What is Wrought Iron? Bulletin 26-A. Contains the definition of wrought iron, methods of manufacture, chemical and physical characteristics; advantages of wrought iron as a pipe material; service records from old buildings equipped with Byers Genuine Wrought Iron Pipe. How to tell the difference between iron and steel pipe. 40 pp. Illustrated. Size, $8 \times 10\frac{1}{4}$ in.

680. The Installation Cost of Pipe, Bulletin 38. Contains cost analysis of a variety of plumbing, heating, power and industrial systems, with notes on corrosive effects in different kinds of service. 32 pp. Illustrated. Size, $8 \times 10\frac{3}{4}$ in.

Crampton Farley Brass Co., 221 Main St., Kansas City, Mo.

194. Several pamphlets describing various types of floor and area-way drains. Size, $3\frac{1}{2} \times 6\frac{1}{4}$ in.

The Duriron Co., Dayton, Ohio.

758. Duriron Acidproof Building Equipment, Bulletin No. 134. An architect's handbook describing the advantages of Duriron material in contact with corrosive liquids and fumes. Details and dimensions of drainage pipes and fittings and acid-proof exhaust fans and ducts. 24 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

1008. Duriron Drain Pipe and Fittings, Bulletin No. 134-A. Bulletin describing the physical properties, details and specifications for drain pipe and fittings which are non-corrosive to acid, alkali and other chemical wastes of industrial plants, laboratories, hospitals and colleges. 20 pp. Illustrated. Size, $8\frac{1}{4} \times 11$ in.

Ever Hot Heater Co., 5189 Wesson Ave., Detroit, Mich.

1025. Technical Manual for Architects and Engineers. Describing the construction of Ever-Hot automatic water heaters with installation and operation instruction, economics, engineering data and specifications. 26 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

Excelso Specialty Works, 119 Clinton St., Buffalo, N. Y.

843. Excelso Quality Water Heaters. Catalog describing a complete line of water heaters to be attached to furnaces, steam and hot water heating boilers. 8 pp. Illustrated. Size, $3\frac{1}{4} \times 6\frac{1}{4}$ in.

Hedges & Brothers, 105 South Street, Newark, N. J.

990. Pilot Flush Valves, Price List "B" 1925. Circular illustrating a complete line of valves for lavatories and urinals. Also mixing valves, spreaders, strainers and sanitary accessories. 4 pp. Illustrated. Size, $8\frac{1}{2} \times 10\frac{3}{4}$ in.

Hess Warming & Ventilating Co., 1204 Tacoma Bldg., Chicago, Ill.

860. Hess Snow-White Steel Cabinets and Mirrors. A catalog with details of construction, dimensions, weights and prices of Snow-White steel cabinets of various styles and mirror access doors and frames to pipe shaft. 16 pp. Illustrated. Size, 4×6 in.

Humphrey Company, Kalamazoo, Mich.

789. Humphrey Gas Water Heater. A catalog and sales manual giving details, dimensions, capacities and specifications of a complete line of standard automatic gas water heaters and automatic multi-coil storage systems. 32 pp. Illustrated. Size, $7\frac{1}{2} \times 10\frac{1}{4}$ in.

Jenkins Brothers, 80 White Street, New York City.

856. Jenkins Valves for Hotels, Apartment Houses, Clubs, Auditoriums and Theatres. A special catalog showing the fitness of certain Jenkins Valves for all of the power, heating, plumbing and fire protection requirements of this kind of buildings. 48 pp. Illustrated. Size, $4\frac{1}{2} \times 7\frac{1}{2}$ in.

857. Jenkins Valves for Office Buildings, Lofts, Banks, Stores and Jenkins Valves for Industrial Plants and Factories. Two catalogs showing the special fitness of certain Jenkins Valves for all of the power, heating, plumbing and fire protection requirements of these kinds of buildings. 48 pp. Illustrated. Size, $4\frac{1}{2} \times 7\frac{1}{2}$ in.

858. Jenkins Valves for Public Buildings, Schools, Universities, Churches, Community Houses and Jenkins Valves for Hospitals, Sanatoriums, Allied Institutions. Two special catalogs showing the fitness of certain Jenkins Valves for the power, heating, plumbing and fire protection requirements of these kinds of buildings. 48 pp. Illustrated. Size, $4\frac{1}{2} \times 7\frac{1}{2}$ in.

The Kennedy Valve Mfg. Co., Elmira, N. Y.

801. Kennedy Valves, Catalog No. 45. A catalog illustrating a complete line of gate, globe and angle, check, back-water and sewer-gas valves for every purpose. Dimensions, details and specifications. 142 pp. Illustrated. Size, 5×8 in.

802. Kennedy Pipe Fittings, Catalog No. 45. A catalog describing a complete line of malleable iron and cast-iron flanged pipe fittings, reducers and cast-iron flanges for every purpose. Details, dimensions and drilling templates. 142 pp. Illustrated. Size, 5×8 in.

803. Kennedy Fire Hydrants, Catalog No. 45. A catalog describing a complete line of fire hydrants and accessories. Details, dimensions and installation directions. 142 pp. Illustrated. Size, 5×8 in.

Kohler Company, Kohler, Wis.

209. "Kohler of Kohler." A booklet on enameled plumbing ware describing processes of manufacture and cataloging staple baths, lavatories, kitchen sinks, slop sinks, laundry trays, closet combinations. 48 pp. Illustrated. Size, $5\frac{1}{8} \times 8$ in. Roughing-in measurement sheets, 5×8 in.

531. Catalog F. This is a complete catalog of Kohler enameled ware for plumbing installations, together with high-grade fittings. There is also a brief and interesting description of the manufacture of high-grade enameled ware and a statement of the facts about Kohler village, one of the discussed experiments in modern industrial town building. 215 pp. Cloth bound. Illustrated. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.

756. Kohler Automatic Power and Light. A catalog illustrating a complete line of isolated automatic electric plants of 800 to 2,500 watts capacity, operated by gas or gasoline. Specifications. 48 pp. Illustrated. Size, $6 \times 8\frac{1}{2}$ in.

Thomas Maddock's Sons Company, Trenton, N. J.

696. Vitreous China Plumbing Fixtures. A valuable and complete catalog of vitreous china lavatories, drinking fountains, bidets, water closets, urinals, slop sinks, bathtubs, kitchen sink accessories. Completely illustrated with roughing-in diagrams. 242 pp. Illustrated. Size, 8×11 in.

The Permutit Company, 440 Fourth Ave., New York City.

105. Permutit (Water Rectification Systems.) Illustrated booklet. Describes all methods of softening water, including the original Zeolite process. For homes, hotels, apartment houses, swimming pools, laundries, and industrial plants. Size, $8\frac{1}{2} \times 11$ in. 32 pp.

The Whitlock Coil Pipe Co., Hartford, Conn.

1046. A looseleaf folder of water storage heaters, preheaters, water treatment, details and sales manual. 16 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in. Bulletins, looseleaf, details and data water heaters and fuel oil heaters. 52 pp. Illustrated. Size, $5\frac{1}{2} \times 8\frac{1}{2}$ in.

30. HEATING AND VENTILATING

The American Foundry and Furnace Co., Bloomington, Ill.

1076. The American System of Fan Blast Heating and Ventilating. A looseleaf folder on the American system of direct transmission air heating for producing heat and ventilation in schools, churches and theatres. 22 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

American Radiator Co., 104-108 West 42d St., New York City.

427. Ideal-Arcola Heating Outfit. A book describing a system of hot water heating for small and medium size houses. The boiler is placed in a room and resembles a stove. No cellar required. The ash carrying reduced to a minimum. 24 pp. Illustrated. Size, $6 \times 8\frac{1}{2}$ in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

30. HEATING AND VENTILATING—Continued

- The Bayley Manufacturing Company**, 732-760 Greenbush St., Milwaukee, Wis.
- 486. Bulletin No. 23.** This bulletin is descriptive of the Bayley Turbo-Atomizer, the Bayley Turbo Air-Washer and Air Conditioner, for cleaning, cooling, tempering, humidifying and de-humidifying air. It contains an interesting treatise on air conditioning methods, together with useful tables and a set of specifications. 32 pp. Illustrated. Size, $7\frac{3}{4} \times 10\frac{1}{2}$ in.
- Buckeye Blower Co.**, Columbus, Ohio.
- 960. Heatvent System. Bulletin No. 123.** Illustrating individual heating and ventilating units for schools and places of public assemblage. Engineering data, details and specifications. 14 pp. Illustrated. Size, $8 \times 10\frac{1}{2}$ in.
- Buffalo Forge Co.**, 490 Broadway, Buffalo, N. Y.
- 215. Buffalo Fan System of Heating, Ventilating and Humidifying. Catalog 700.** This contains a general discussion of heating and ventilating under four heads. Part 1, Public Buildings. Part 2, Industrial Plants. Part 3, Buffalo Apparatus. Part 4, Fan Engineering.
- 976. Fan Engineering.** An engineering handbook in three parts: Physical properties of air, heat and humidity; air movement for heating, ventilation, forced draft, etc.; performance tables and general information concerning standard apparatus for fan work; appendix, tables. 610 pp. Illustrated. Size, $4\frac{1}{4} \times 7$ in. Price, \$4.00.
- Burnham Boiler Corporation**, Irvington, N. Y.
- 800. Letters To and Fro.** A booklet which explains the difference between steam, hot water and vapor systems of heating and the relative cost of each. Questions, answers and boiler data. 34 pp. Size, 7×10 in.
- C. A. Dunham Co.**, 230 East Ohio St., Chicago, Ill.
- 831. The Dunham Heating Service Bulletins.** Bulletin 101, Radiator Traps; 102, The Dunham Blast Trap; 103, Medium Pressure Traps; 104, Packless Radiator Valves; 105, Oil Separators and Suction Strainers; 106, Reducing Pressure Valves and Vacuum Pump Governors; 107, Air Line Valves; 108, Home Heating Systems; 109, The Dunham Return Heating System; 110, Vacuum Heating System; 111, Installing House Heating System. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- 993. The Dunham Hand Book, No. 314.** Revised edition of valuable book devoted to steam heating installations for all purposes. Describes apparatus, piping plans, engineering data. 190 pp. Illustrated. Size, $3\frac{3}{4} \times 6\frac{1}{2}$ in.
- 1010. Dunham Return Heating System. Bulletin No. 109.** Showing the application of the Dunham Return Trap and Radiator Trap to secure positive circulation of steam and correct disposal of return water. Complete details of installation, dimensions, specifications and design data. 16 pp. Illustrated. Size, 8×11 in.
- The Duriron Company**, Dayton, Ohio.
- 1009. Duriron Ventilating Fans and Hoods. Bulletin No. 140.** Bulletin describing a line of electrically driven exhaust fans for use with acid and other corrosive fumes in industrial plants and laboratories. Also non-corrosive equipment for laboratory hoods. 20 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- General Boilers Co.**, Waukegan, Ill.
- 799. "Bulletin SC-24** describes and illustrates, with specifications, all types of Pacific Steel Heating Boilers for operation on coal. Bulletin OF-24 covers Pacific Oil Fired Steel Boilers."
- 1071. Bulletin SC-26.** Descriptive illustrations and specifications. Pacific Direct Draft and Up Draft Smokeless Boilers; Bulletin OF-26 covers Pacific Oil Fired Boilers; Bulletin RT-26 Pacific Steel Residence Boilers; and DD-26 Pacific Down Draft Boilers.
- Gillis & Geoghegan**, 545 West Broadway, New York City.
- 969. The G. & G. Telescopic Hoist.** A catalog containing specifications in two forms: (1) using manufacturer's name, and (2) without using manufacturer's name. Detail in $\frac{1}{4}$ -inch scale for each telescopic model and special material handling section. Fully illustrated with photographs of actual installations and descriptive matter of same. 24 pp. 2 colors. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Daniel P. Gracom**, 101 Park Ave., New York City.
- 995. Radiator Enclosures.** A circular illustrating and describing a line of artistic metal radiator enclosures in various styles and colors. 6 pp. Illustrated. Size, $5\frac{1}{4} \times 4\frac{1}{4}$ in.
- Hart & Cooley Co.**, New Britain, Conn.
- 712. Wrought Steel Registers and Grilles. Catalog No. 24.** A catalog of wrought steel floor, baseboard and wall registers, cold air intakes, lock registers, ventilators, furnace regulators and accessories. Dimensions, details and price lists. 80 pp. Illustrated. Size, $7\frac{3}{4} \times 10$ in.
- F-882. Radiator Enclosures.** Booklet illustrating and describing various types of radiator enclosures. 8 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Heggie Simplex Boilers Co.**, Joliet, Ill.
- 1070. Catalog No. 26.** Heggie-Simplex Electric Welded Steel Heating Boilers. Descriptive illustrations and detailed data on size, ratings, etc. 22 pp. Illustrated. Size, $8\frac{1}{2} \times 10\frac{1}{4}$ in.
- Hess Warming and Ventilating Co.**, 1209 Tacoma Bldg., Chicago, Ill.
- 178. Modern Furnace Heating.** An illustrated book on the Hess Welded Steel Furnaces. Pipe and Pipeless, notes for installation, sectional views, showing parts and operation, dimensions, register designs, pipes and fittings. Size, $6 \times 9\frac{1}{2}$ in. 48 pp.
- Ilg Electric Ventilating Co.**, 2850 North Crawford Ave., Chicago, Ill.
- 1072. Looseleaf Catalog.** Illustrating electrical ventilating equipment complete encyclopedia on modern methods of ventilating and heating stores, offices, theatres, restaurants, garages, houses, public buildings. 400 pp. Illustrated.
- 1073. Instructions for Installing Ilg Ventilating Fans.** A book of interest to the architect and engineer. Includes diagrams and instructions for ventilation of various types of buildings.
- International Heater Co.**, Utica, N. Y.
- 998. International Warm Air Furnaces.** The Baronet, Economy and Carton furnaces are described in catalogs for each type. Details, dimensions, capacities and designing data. 16-16-24 pages. Illustrated. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.
- 999. International Economy Boilers.** Catalog of cast-iron sectional steam and hot water heating boilers, also hot water supply boilers. All sizes and capacities, details, capacities and designing data. 36 pp. Illustrated. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.
- Johnson Service Company**, 149 Michigan St., Milwaukee, Wis.
- 391. The Regulation of Temperature and Humidity.** A description of the Johnson System of temperature regulation and humidity control for buildings; showing many kinds of thermostatic appliances for automatically maintaining uniform temperature. 63 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- 392. Johnson Electric Thermostat, Valves and Controllers.** A catalog of devices mentioned in the title. 24 pp. Illustrated. Size, $3\frac{1}{2} \times 6$ in.
- Kewanee Boiler Co.**, Kewanee, Ill.
- 840. Kewanee Boilers.** Catalog 78, Firebox Boilers; Catalog 79, Power Boilers; Kewanee Boilers in Omaha Schools. Complete details, dimensions, setting diagrams, designing data, specifications and accessories. 52, 34 and 16 pp. Illustrated. Size, 6×9 in.
- 841. Kewanee Radiators and Equipment.** Catalog No. 77, Radiators; Catalog 75, Water Heating Garbage Burners. Tabasco Water Heaters and Tanks of all kinds; Selecting the Heating Boiler. Complete details, dimensions, setting diagrams. Designing data and specifications. 24, 30, and 16 pp. Illustrated. Size, 6×9 in. and 5×8 in.
- Knowles Mushroom Ventilator Co.**, 204 Franklin St., New York City.
- 906. Ventilation for Auditoriums.** A catalog describing fresh air diffusers used in connection with mechanical systems of ventilation in auditoriums, schools, churches, and public buildings. Complete details and design data. 8 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Midwest Air Filters, Inc.**, Bradford, Pa.
- 924. Midwest Air Filters—Baffle Impingement Type.** Bulletins, specifications, folders and catalogs covering the applications of these filters in the ventilation of schools, hotels, office buildings, theatres, museums, and other buildings, as well as the various uses in industrial plants, central stations, etc. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Modine Manufacturing Co.**, Racine, Wis.
- 1057. Bulletin A.** Modine Unit heater for steam or hot water heating systems. Bulletin describes general and mechanical advantages of Modine Unit Heaters. 8 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- National Tube Co.**, Frick Bldg., Pittsburgh, Pa.
- 670. National Bulletin No. 25B. Third Edition.** Devoted to the installation of steel pipe in large buildings, architectural anti-corrosion engineering, gas piping, specifications and tables of strength and properties. 74 pp. Illustrated. Size, $8\frac{1}{2} \times 10\frac{3}{4}$ in.
- The Herman Nelson Corporation** (formerly Moline Heat), Moline, Ill.
- 411. Univent Ventilation. Architects' and Engineers' Edition.** A scientific treatise on ventilation for schools, offices and similar buildings; with 40 pages of engineering data on ventilation for architects and engineers. 72 pp.
- Peerless Unit Ventilation Co., Inc.**, Skillman Ave., and Hulst St., Long Island City, N. Y.
- 1048. PeerVent Heating and Ventilating Units.** Booklet descriptive of Unit heating and ventilating units, mechanical features and advantages. Directions for laying out unit systems, complete engineering data and details of standard units. 62 pp. Illustrated. Size, $8\frac{1}{4} \times 10\frac{3}{4}$ in.
- Richardson & Boynton Co.**, New York, N. Y., Chicago, Ill., Philadelphia, Pa., Providence, R. I., Boston, Mass.
- 290. The Richardson Vapor Vacuum-Pressure Heating System.** An interesting book which presents in clear non-technical language the principles of Vapor-Vacuum-Pressure heating; the economy over ordinary steam heating, steam and hot-water systems may be altered to use the principle with views of buildings where the V-V-P system is installed. 14 pp. Illustrated. Size, 8×11 in.
- 291. Perfect Warm Air Furnaces.** No. 203. Contains a full description of various types of warm air furnaces and parts, with dimensions and necessary data. 24 pp. Illustrated. Size, $8 \times 10\frac{1}{2}$ in.
- B. F. Sturtevant Co.**, Hyde Park, Boston, Mass.
- 1085. Silentvane Fans. Catalog No. 290.** Illustrates and describes fans as installed in ventilating systems of buildings shown. Catalog includes Designs 1 and 2 with performance tables, dimension sheets and specifications. A-IA File No. 30-d1. 92 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- 1086. Multivane Fans. Catalog No. 271.** A-IA File No. 30-d1. Catalog gives dimensions, capacities, horse-powers, performance tables, specifications and detail description of Multivane fans. Design No. 3. 96 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

30. HEATING AND VENTILATING—Continued

- Thatcher Co.**, 131-135 West 35th St., New York City.
- 748. Thatcher Boilers and Thatcher Furnaces.** Catalog describing a series of cast-iron steam and hot water heating boilers and also one describing a series of cast-iron warm air heaters. Accessories, details and dimensions. 80 pp. and 24 pp. Illustrated. Sizes, $4\frac{1}{2} \times 7\frac{1}{2}$ and $8\frac{1}{2} \times 11$ in.
- Tuttle and Bailey Mfg. Co.**, 2 West 45th St., New York City.
- 844. Registers and Grilles, 78 Annual Catalog.** A catalog illustrating a complete line of cast Ferrocraft Grilles, describing their advantages; details, dimensions and installation data. 76 pp. Illustrated. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in.
- Young Pump Co.**, 230 East Ohio St., Chicago, Ill.
- 965. Young Centrifugal Vacuum and Boiler Feed Pump Bulletin No. 5.** Describes electrically driven centrifugal vacuum and boiler food pumps, and receiving or accumulator tanks. Capacities, dimensions and specifications. 12 pp. Illustrated. Size, $8 \times 10\frac{1}{2}$ in.

31. ELECTRICAL WORK

- Frank Adam Electric Co.**, St. Louis, Mo.
- 629. The Control of Lighting in Theatres.** A book describing means for complete control of lighting the stage, auditorium and other parts of the theatres with distribution schedules and specifications. Also specifications of control to Masonic buildings, schools and colleges. 32 pp. Illustrated. Size, 8×11 in.
- 741. Panel Board Catalog No. 32.** A complete catalog of standard panel boards, steel cabinets, switches and accessories. 48 pp. Illustrated. Size, $7\frac{3}{4} \times 10\frac{1}{2}$ in.
- American Steel & Wire Co.**, 208 So. La Salle St., Chicago, Ill.
- 848. Electrical Wires and Cables.** A catalog describing a complete line of electrical wire products and also containing a valuable hand book of electrical wiring tables, systems and other installations and designing data. 134 pp. Illustrated. Size, 6×9 in.
- Americolite Co.**, 139 Chestnut Ave., Jersey City, N. J.
- 1034. Transplanted Sunlight.** A circular explaining the principles of design and materials used in the Americolite fixture for lighting offices, stores, hotels, churches, factories and large areas obviating individual desk and table lights. 6 pp. Illustrated. Size, $8\frac{1}{2} \times 12$ in.
- Curtis Lighting, Inc.**, 119 West Jackson Blvd., Chicago, Ill.
- 1079. Architectural Detail Plates.** With suggestions and data for lighting equipment specifications. Plates Nos. 68, 69 and 70 deal with Church, Gymnasium and Public Building lighting respectively, and are sent free to any registered architect who requests them on his own letterhead.
- Enameled Metals Co.**, Pittsburgh, Pa.
- 584. Pittsburgh Standard Rigid Conduit.** A catalog describing patented thread protected enameled conduit and galvanized conduit with specifications and useful wiring data. 31 pp. Illustrated. Size, $6\frac{1}{4} \times 9\frac{1}{2}$ in.
- L. Erikson Electric Co.**, 6 Portland St., Boston, Mass.
- 1005. Erikson Reflectors. Catalog No. 91.** A catalog covering Erikson Reflectors and special lighting equipment for Banks, Theatres, Stores, Churches and Hospitals; shows cuts of reflectors, illustrations of representative installations, and also gives valuable engineering data as to the application of this type of equipment. 73 pp. Illustrated. Size, 8×11 in.
- I. P. Frink, Inc.**, 24th St. and 10th Ave., New York City.
- 150. Light Service for Hospitals. Catalog No. 426.** A booklet illustrated with photographs and drawings, showing the types of light for use in hospitals, as operating table reflectors, linolite and multilite concentrators, ward reflectors, bed lights and microscopic reflectors, giving sizes and dimensions, explaining their particular fitness for special uses. Size, 7×10 in. 12 pp.
- 218. Picture Lighting. Booklet No. 422.** A pamphlet describing Frink Reflectors for lighting pictures, art galleries, decorated ceilings, cove lighting, the lighting of stained glass, etc., and containing a list of private and public galleries using Frink Reflectors. 24 pp. Illustrated. Size, $5\frac{1}{4} \times 7$ in.
- 219. Frink Reflectors and Lighting Specialties for Stores. Catalog No. 424.** A catalog containing a description of the Frink Lighting System for Stores; the Synthetic System of Window Illumination; and a number of appliances to produce the most effective lighting of displayed objects. 20 pp. Illustrated. Size, 8×11 in.
- 220. Frink Lighting Service for Banks and Insurance Companies' Reflectors. Catalog No. 425.** A very interesting treatise on the lighting of offices; with details of illustrations and description of lamps and reflectors. Contains a list covering several pages of banks using Frink Desk and Screen Fixtures. 36 pp. Illustrated. Size, $8\frac{1}{4} \times 11$ in.
- The Edwin F. Guth Co.**, Jefferson and Washington Aves., St. Louis, Mo.
- 992. Lighting Equipment. Catalog No. 15.** A looseleaf catalog illustrating a very extensive and complete line of lighting fixtures of all types and for all purposes. 96 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- 1060. Forge Craft Luminaires Wall Bracket.** Booklet illustrating and describing iron, copper and iron and copper electric lighting fixtures for small houses. 16 pp. Illustrated. Size, $8\frac{1}{2} \times 10\frac{1}{2}$ in.
- Graybar Electric Co.**, 100 East 42nd St., New York City.
- 1052. Electrical Supply Year Book, 1926-27.** A complete catalog of electrical supplies made by the Western Electric Company. The 1925 edition of the "National Electrical Code" of the National Board of Fire Underwriters is included as well as valuable electrical data. 1012 pp. Illustrated. Size, 8×11 in.
- The Hart & Hegeman Mfg. Co.**, 342 Capitol Ave., Hartford, Conn.
- 699. H. & H. Electrical Wiring Devices. Catalog "R."** Catalog of a complete line of switches, sockets, plugs, receptacles, plates, rosettes, cut-outs, electrics and accessories. Two identical catalogs in two sizes. 152 pp. Illustrated. Sizes, $5 \times 6\frac{1}{4}$ and $8 \times 10\frac{1}{2}$ in.

- 871. Architect's Handbook of H. & H. Wiring Devices.** This catalog was compiled by an architect. Contains description and prices of a complete line of switches, receptacles and outlets. 16 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Harvey Hubbell, Inc.**, Bridgeport, Conn.
- 297. Electrical Specialties. Catalog No. 17, 1921.** This catalog contains descriptions with prices of the thousand and one items connected with electric light, electric alarm and small electric appliance installations in modern buildings. 104 pp. Illustrated. Size, $8 \times 10\frac{1}{2}$ in.
- 401. Hubbell Flush Door Receptacles.** Description of a safe, convenient and practical wall outlet de luxe for fine residences, clubs, hotels, public buildings and offices. 4 pp. Illustrated. Size, 8×10 in.
- Ivori Craft Corp.**, 290 Chestnut St., Newark, N. J.
- 1040. Ivori-craft Flush Plates.** Folder describing Ivori-craft composition flush cover plates for convenience outlets and switches. Standard and special shapes, colors and price list. 4 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Kliegl Bros.**, 321 West 50th Street, New York City.
- 1084. Kliegl Theatrical, Decorative and Spectacular Lighting. Catalog M.** Description of complete line of lighting specialties and lighting effects for stages, etc. Catalog includes stage equipment, exit signs, aisle and step lights, dimmers, switchboards and other special lighting apparatus. 128 pp. Illustrated. Size, $7\frac{3}{4} \times 10\frac{1}{2}$ in.
- Morris Sklar Co.**, 41 No. 7th St., Philadelphia, Pa.
- F-868. Sklar's Monaxlites.** Lighting units for churches, schools, stores and offices. Description, partial list of installations and modern specifications. Filing folder A. I. A. File No. 31 f 23. 8 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Stromberg-Carlson Telephone Mfg. Co.**, Rochester, New York City.
- 304. Inter-Communicating Telephone Systems. Bulletin No. 1017.** A pamphlet giving just the information required for the installation of intercommunicating systems from 2 to 32 stations capacity. 15 pp. Illustrated. Size, $7\frac{1}{4} \times 10$ in.
- Youngtown Sheet and Tube Co.**, Youngstown, Ohio.
- 1017. Electrical Conduit.** Circular giving complete data about Buckeye Rigid Conduit and Realflex Flexible Steel Armored Cable with specifications. 6 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

32. REFRIGERATION

- Baker Ice Machine Co., Inc.**, Omaha, Neb.
- 661. Baker System Refrigeration.** A catalog explaining the application of refrigeration for hotels, hospitals, institutions and restaurants requiring up to 50 tons daily capacity including mechanical details and specifications. 20 pp. Illustrated. Size, 9×12 in.
- Delco-Light Co.**, Dayton, Ohio.
- 962. Frigidaire.** Booklet describing installations and details of automatic refrigerating equipment for residential hotels and apartment buildings. 50 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Frick Company**, Waynesboro, Pa.
- 851. Ice and Frost. Series G, No. 4.** Bulletin describing mechanical refrigeration for dairies and creameries, ice cream plants, meat and fish and public markets, clubs, hospitals and hotels; also how the plants work. 44 pp. Illustrated. Size, 6×9 in.
- Hydro Refrigerator Co., Inc.**, 115 Broadway, New York City.
- F-875. Fedco—Refrigerating Unit.** Folders describing a refrigerating unit operated on ordinary city of other water pressure without electrical connections. Folders, $5\frac{1}{2} \times 7$ in. and $8\frac{1}{2} \times 11$ in. Illustrated.
- Jamison Cold Storage Door Co.**, Hagerstown, Md.
- 569. Heavy Duty Cold Storage Doors. Catalog No. 10.** Complete description of both hinged and sliding cold storage doors for every equipment. Also description of cold storage windows and ice chutes. 79 pp. Illustrated. Size, $5\frac{1}{4} \times 9$ in.
- The Jewett Refrigerator Company**, 27 Chandler Street, Buffalo, N. Y.
- 655. Manual of Refrigerators.** This manual completely describes the construction of refrigerators for use in hotels, clubs, hospitals institutions and residences, with specifications. Numerous plans showing size and arrangement of refrigerators in kitchens, service and lunch rooms are included. 30 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.

33. ELEVATORS

- Kimball Bros. Co.**, Council Bluffs, Iowa.
- 742. Kimball Straight Line Drive Elevators.** A complete catalog of passenger, freight and garage traction elevators, push button elevators, dumbwaiters, sidewalk and ash hoist elevators, 36 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Otis Elevator Co.**, 260 Eleventh Ave., New York City.
- 651. Otis Geared and Gearless Traction Elevators.** Leaflets describing all types of geared and gearless traction elevators with details of machines, motors and controllers for these types. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- 652. Elevators and Inclined Elevators.** A comprehensive catalog illustrating the use of escalators for transporting people in stores, subways, railroad stations, theatres and mills; also inclined freight elevators for stores, factories, warehouses and docks adjustable to tide levels. 22 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Richards-Wilcox Mfg. Co.**, Aurora, Ill.
- 795. "Ideal" Elevator Door Hardware. Catalog No. 37.** A catalog showing hangers for every type of elevator doors hand operated, interlocking door controllers, bar locks and accessories. 56 pp. Illustrated. Size, $8\frac{1}{2} \times 11$ in.
- Sedgwick Machine Works**, 144 West 15th St., New York City.
- 60. Hand Power Elevator and Dumbwaiters in Modern Architectural Construction.** Illustrated catalog. Size, $4\frac{1}{4} \times 8\frac{1}{4}$ in. 80 pp.

REFERENCE LIST OF BUSINESS LITERATURE—Continued

33. ELEVATORS—Continued

- A. B. See Electric Elevator Co.,** 52 Vesey St., New York City.
169. Photographs and description in detail of elevator equipment manufactured by the A. B. See Electric Elevator Co. Size, 6 x 8 in.

35. EQUIPMENT, STATIONARY

- American Stove Co.,** St. Louis, Mo.
1050. *Handbook on Gas Ranges for Architects and Builders.* A practical book of data on gas ranges and pipe sizes for the files of the architect and specification writer. 32 pp. Illustrated. Size, 8¾ x 11¼ in.

- Chicago Dryer Co.,** 2210 No. Crawford Ave., Chicago, Ill.
66. *Laundry Appliances.* Illustrated catalog, Descriptions of Laundry Dryers, Electric Washing Machines and Ironing Machines, especially adapted for use in residences, apartment buildings and small institutions. Size, 8½ x 11 in. 48 pp.

- R. W. Clark Mfg. Co.,** 1774 Wilson Ave., Chicago, Ill.
588. *Clark Directories and Clark Changeable Bulletin Boards.* Two pamphlets describing the Clark Changeable Bulletin Board and Directories for Office Buildings, Hotels, Business Buildings, etc. 8 pp. and 4 pp. Illustrated. Size, 6¼ x 9 in.

- Dangler Stove Co., Division of American Stove Co.,** Cleveland, Ohio.

- 459.** *Measured Heat Cookery.* Catalog No. 161. A catalog of gas cooking stoves, ranges, and water heaters; featuring the Lorain Oven Heat Regulator, a device for obtaining uniform heat without constant supervision. 72 pp. Illustrated. Size, 7½ x 10¼ in.

- J. C. Deagan, Inc.,** 189 Deagan Bldg., Chicago.
783. *Deagan Tower Chimes.* Describing the important features of Deagan Tower Chimes and including information concerning the space requirements and construction required for installing chimes in towers and belfries. 8 pp. Size, 8½ x 11 in.

- W. F. Dougherty & Sons, Inc.,** 1009 Arch St., Philadelphia, Pa.
764. *Kitchen Equipment for Hotels and Institutions.* Several catalogs covering a complete line of cooking apparatus.

- G. & G. Atlas Systems, Inc.,** 535 West Broadway, New York City.
983. *G. & G. Atlas Pneumatic Tube Systems.* A circular explaining the advantages of pneumatic tube systems for department stores, banks, hotels, office buildings, hospitals and industrial plants. Illustrations of installations and details. 8 pp. Illustrated. Size, 8½ x 11 in.

- Edwin A. Jackson & Bro., Inc.,** 50 Beekman St., New York City.
170. Booklet showing general construction and sizes of garbage receivers to be placed underground for suburban use; also types to be built into the walls of city homes and apartments; also types for the suburban wall with opening on inside for the maid and outside for the garbage man. Size, 3½ x 6¼ in. 16 pp.

- Kerner Incinerator Company,** 1029 Chestnut St., Milwaukee, Wis.
381. *The Sanitary Elimination of Household Waste.* M-3 Folder. Description of construction, installation and operation of the Kernerator for residences. Illustrated by views of residences in which the Kernerator is installed, with cuts showing all details. 15 pp. Illustrated. Size, 4 x 9 in.

- Fred Medart Mfg. Co.,** St. Louis, Mo.
1066. *Catalog L-3 Gymnasium Apparatus.* Catalog M-2. Catalogs illustrate and describe all apparatus made for these purposes. L-3 contains 14 pages of general information on the planning of gymnasiums with sizes of regulation Volley Ball, Basket Ball, Indoor Base Ball, Playground Base Ball and Tennis Courts. Catalog L-3: 92 pp. Illustrated. Size, 9 x 12 in. Catalog M-2: 44 pp. Illustrated. Size, 9 x 12 in.

- The Pfaunder Company,** Rochester, N. Y.
581. *Glass Lined Steel Laundry Chute.* Catalog describing a glass lined steel laundry chute with flushing ring at top and drain connection at bottom, specifications, dimensions and details adapted to hospitals and hotels. 14 pp. Illustrated. Size, 5½ x 7½ in.

- Richardson & Boynton Co.,** New York, N. Y., Chicago, Ill., Philadelphia, Pa., Providence, R. I., Boston, Mass.
292. *Perfect Cooking Ranges.* Description and dimensions of the complete line of the new high enamel finish Richardson Perfect ranges with charts and information regarding combination coal and gas cooking ranges. 40 pp. Illustrated. Size, 8½ x 11 in.

36. CONSTRUCTION PLANT**37. INSULATION**

- Armstrong Cork & Insulation Co.,** Pittsburgh, Pa.
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379. *Pipe and Boiler Coverings.* Catalog 1362. A catalog and manual pipe and boiler coverings, cements, etc. Contains a number of valuable diagrams and tables. 71 pp. Illustrated. Size, 6 x 9 in.

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106. *Celotex Specifications.* Specifications and details for Celotex insulating lumber. Arranged for Architects' files. 12 pp. Illustrated. Size, 8½ x 11 in.

- Flax-li-num Insulating Co.,** St. Paul, Minn.
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39. ACOUSTICS

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40. REGULATIONS**I PLANS AND DESIGNS**

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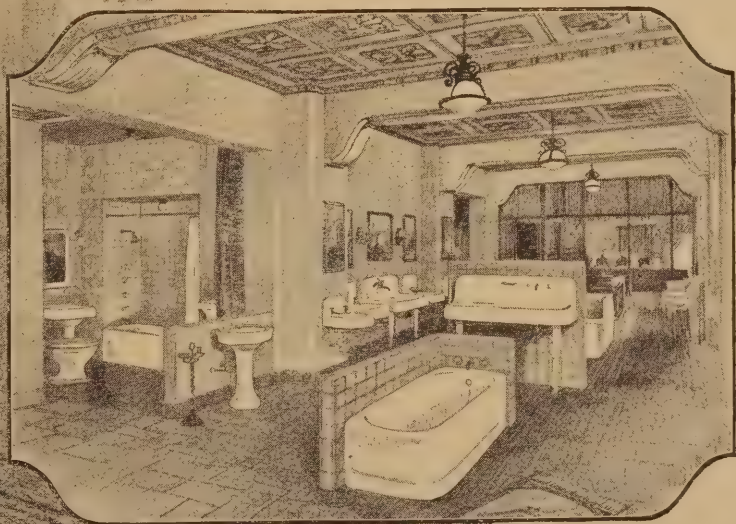
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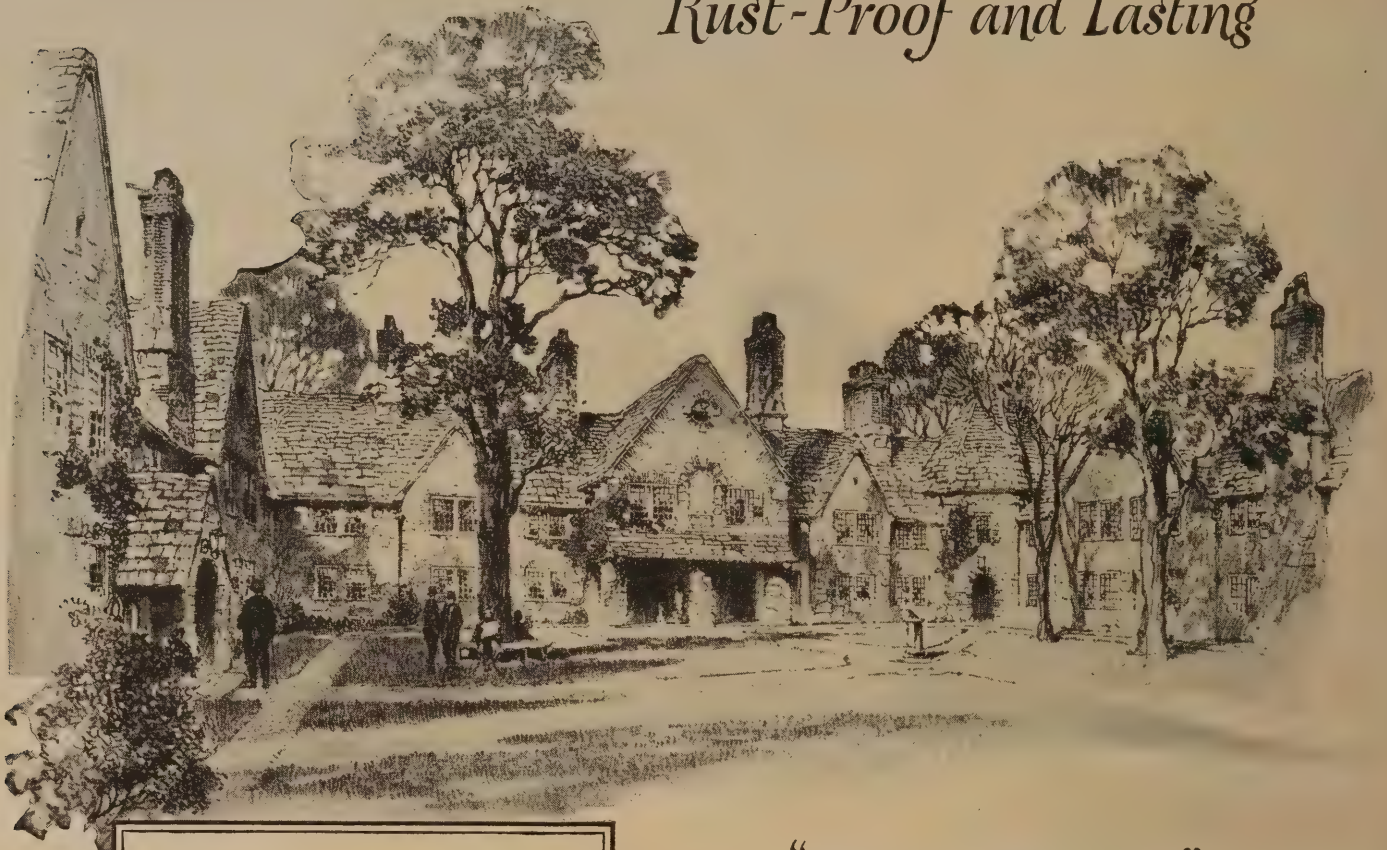
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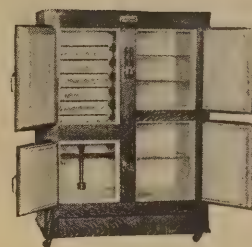
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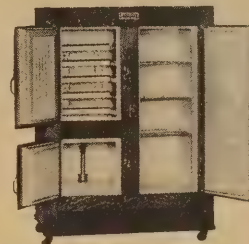
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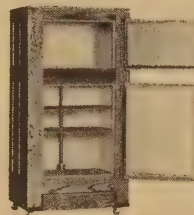
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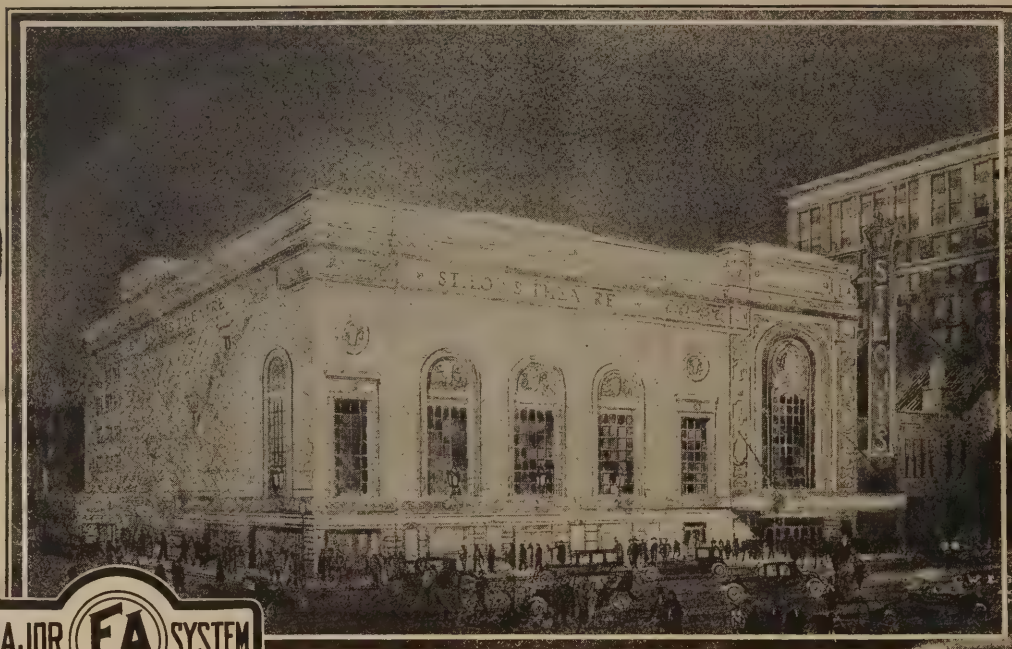


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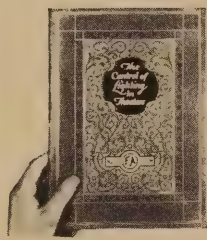
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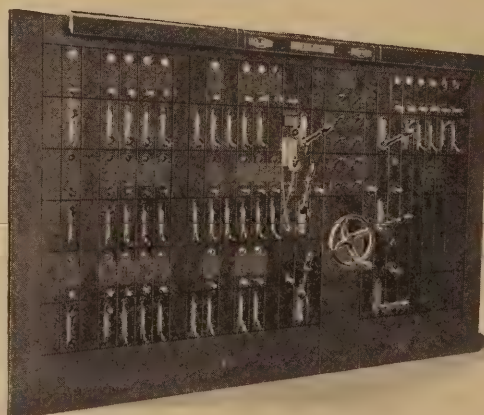
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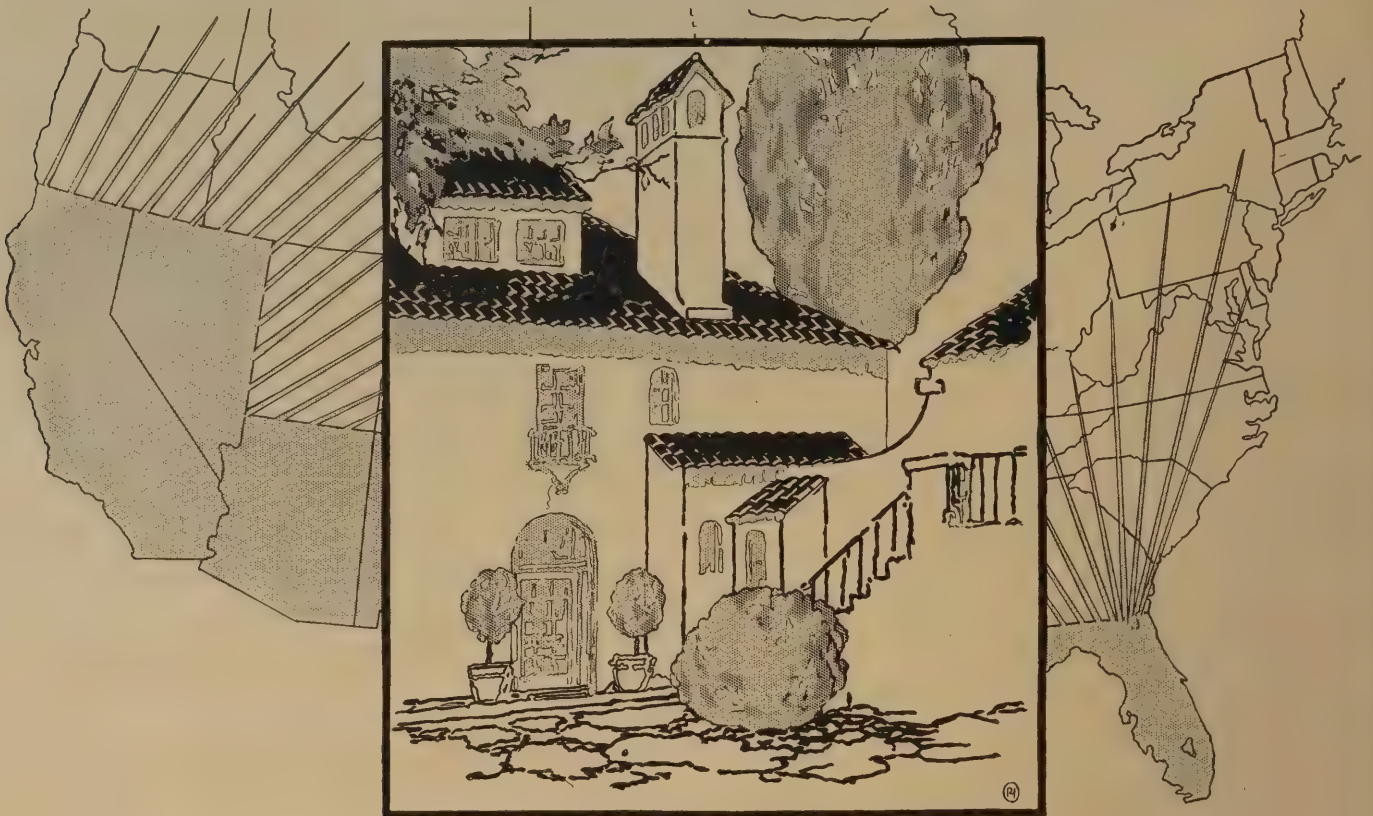
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Check above and send money or stamps for any or all of these books.



NOW!—in Your Town and Mine The Quaint Charm of Old Spanish Roofs



Data Book FREE!

The Milcor Sheet Metal Guide belongs in your files. It gives complete data on Milcor "Titelock" Tile and other architectural metal products. A complimentary copy will be mailed you on request.

MILCOR "Titelock" Spanish Tile has contributed materially to the spreading popularity of the Spanish Style of Architecture, long preferred in Florida and California.

For Milcor "Titelock" Spanish Tile reproduces in metal the picturesque form and color effects of the roofs of old Spain. But more important still, it provides a roof that is firesafe and weather proof—a roof that protects against lightning by shunting it through the metal downspouts to the ground — a roof whose parts cannot crack, chip, or disengage—a roof that forms a blanket of air pockets which effectively guards against summer heat or winter cold. Since it can be laid upon light wood sheathing, Milcor Titelock Metal Tile also accomplishes substantial savings by doing away with the expensive supporting structure necessary for heavy tile roofs.

These advantages and economies have earned for "Titelock" Metal Tile its great popularity with Architects, Contractors and owners. Equally interesting architectural effects, security and durability are also possible with Milcor "American" Metal Tile, Art Metal Shingles, Metal Slate and Metal Trimmings.

MILWAUKEE CORRUGATING COMPANY
MILWAUKEE, WISCONSIN

Chicago, Illinois

Kansas City, Mo.

La Crosse, Wis.

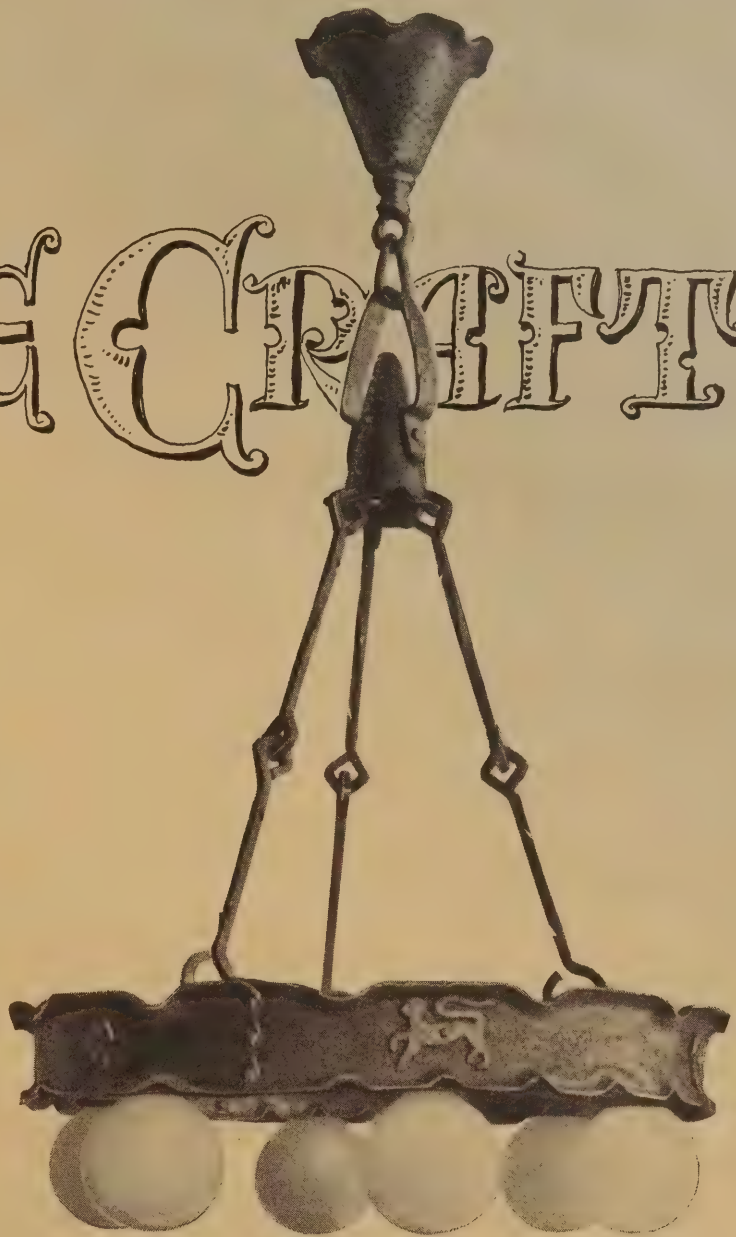
MILCOR

"TITELOCK" SPANISH TILE

FORGE-CRAFT

THE simple elegance, originality and moderate prices of the new line of Guth Forge-Craft Luminaires have placed them in widespread favor among architects and discriminating builders.

The trained eye instantly detects the touch of master-craftsmanship, made possible, in part, by twenty-three years of lighting equipment manufacture. Your request for special designs for any type of installation will receive prompt attention, without obligation and without charge.



Catalog 16 reproduces forty-seven of the many designs of Guth Forge-Craft Luminaires and Wall Brackets. Hundreds of other illuminators in bronze, brass, copper and iron are shown in Catalog 15, bound or loose leaf, with A.I.A. folder. Copies sent on request.

Every operation in the manufacture of Guth lighting fixtures is handled in our own plant, from the raw material to the finished product. No job is too large or too difficult for the Largest Manufacturers of Lighting Fixtures.

The EDWIN E. GUTH COMPANY

DESIGNERS · ENGINEERS · MANUFACTURERS

Lighting Equipment



St. Louis, U. S. A.

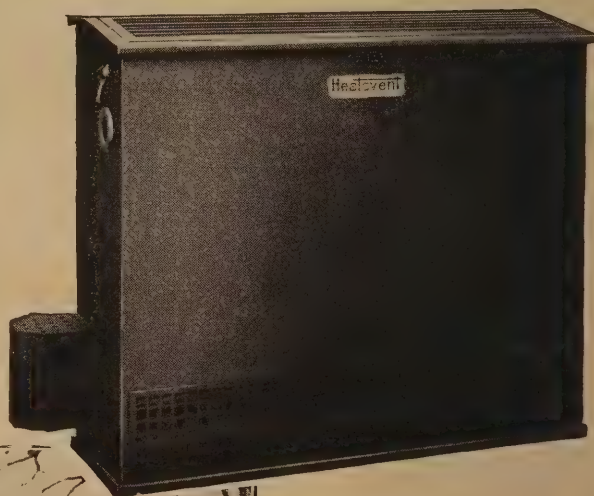
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The Economical Way of Heating and Ventilating School Houses

THE Heatovent system of ventilation provides the utmost economy when the factors of first cost, maintenance cost and operation cost are considered in relation to efficiency of results. Simple Units with no duct system mean low first cost.

Indestructible copper coils, and louvres, bronze bearings for moving parts, simple adjustments, ready accessibility for cleaning and highest grade furniture steel cabinet insure the minimum maintenance cost.

Operation of units only in rooms used, full thermal efficiency, provision for recirculation of air for quick warming of room before occupancy, reduce operating costs to the lowest practicable point.



NEW HIGH SCHOOL BUILDING, BELLAIRE, OHIO

Chas. W. Bates, Architect, Wheeling, W. Va.

R. T. Withers Sons Co., Htg. Contractors, New Castle, Pa.

Heatovent
(REG. U.S. PAT. OFF.)

The Heatovent is low enough to fit under the window sill. It is only 13" in depth which means very little aisle obstruction and, if desired, can be recessed 5" leaving only 8" projection.

Heatovent engineers are at your disposal to help you work out the best type of installation for any given condition.

Buckeye Blower Company

372 Whitehall St., Atlanta, Ga.
2126 Edmondson Ave., Baltimore, Md.
333 Jackson Building, Buffalo, N. Y.
Rose Building, Cleveland, Ohio
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Columbus, Ohio

1400 Broadway, New York, N. Y.

1236 Callowhill Street, Philadelphia, Pa.
709 Columbia Bank Building, Pittsburgh, Pa.
210 Dooley Building, Salt Lake City, Utah
405 Sharon Building, San Francisco, Cal.
Fales Building, Seattle, Wash.
138 E. Corning St., Syracuse, N. Y.
1101 Realty Building, Youngstown, Ohio

SARGENT

Locks & Hardware



SARGENT
HARDWARE

RESIDENCE OF MR. CLAUDE NATHAN
Highland Park, Illinois

Klaber & Grunsfeld
Architects

UNUSUAL doors and windows demand skilfully designed hardware if they are always to operate smoothly. That is one of the reasons why Sargent Locks and Hardware of solid time-resisting brass or bronze are used in so many better homes. There are handles, knobs and escutcheons for every purpose, in designs that harmonize with fine architecture and decoration. To go with them fasteners, adjusters, locks and latches that are permanently fault-free and secure.

SARGENT & COMPANY, *Hardware Manufacturers*
NEW HAVEN, CONN.

New York: 94 Centre Street

Chicago: 221 W. Randolph Street

"Details to which Standard Hardware can be applied" are printed in our catalog. We have additional copies of these pages bound with cover for filing, which we shall be pleased to send to architects and architectural draftsmen upon request.

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



NEW BEAUTY and GREATER STRENGTH in this popular type one-panel door

THE one-panel door with molded panel has enjoyed immense popularity. Architects who have come to expect good design as well as sound materials and construction in Curtis products, will be interested in learning what Curtis has done to this type of door, if they are not already familiar with it.

Note the narrow stiles and rails. They add gracefulness and dignity not possessed by doors in which these parts are wide and heavy-looking. And the Curtis ovolo molding gives definition to them by a delicate play of lights and shadows (see F. S. detail on right).

But better design is not all that Curtis contributes to this door. Note how a *solid insert frame* with a molded raise, is securely held in the stiles and rails of the door. This frame, in turn, contains the panel. Thus there are no nailed-on moldings either on the panel face or on the

stiles and rails. So no nails mar the finished surface.

The construction of the insert frame is itself something entirely new to the wood-working industry. It avoids cut, torn or split grain, producing (where joined) a joint much stronger than that made by any method now generally employed.

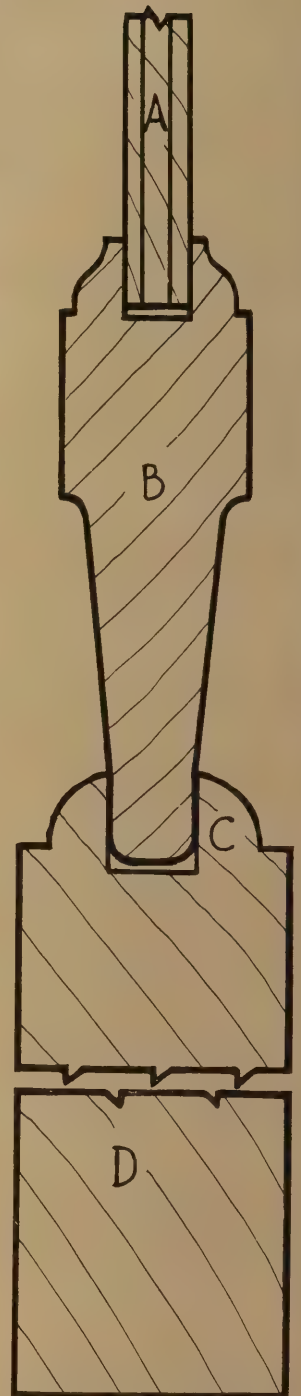
This door is made with pine frame and birch panels and in all birch, in $1\frac{3}{8}$ -inch thickness in sizes from 2-0 x 6-6 to 3-0 x 7-0, and in $1\frac{3}{4}$ -inch thickness from 2-6 x 7-0 to 3-0 x 7-0.

See the Curtis dealer nearest you for further particulars, or write for full information.

The Curtis Companies Service Bureau

479 Curtis Building, Clinton, Iowa

Curtis Sash & Door Co., Sioux City, Iowa; Curtis Detroit Co., Detroit, Michigan; Curtis Bros. & Co., Clinton, Iowa; Curtis & Yale Co., Wausau, Wisconsin; Curtis, Towle & Paine Co., Lincoln, Nebraska; Curtis, Towle & Paine Co., Topeka, Kansas; Curtis-Yale-Holland Co., Minneapolis, Minnesota; Curtis Door & Sash Co., Chicago, Illinois; Curtis Companies, Inc., Clinton, Iowa. Eastern Sales Office: 25 W. 44th St., New York City.



Face measurement of stiles and top rail, $4\frac{1}{4}$ "; bottom rail, $9\frac{1}{2}$ "; greatest thickness insert frame, $15/16$ "; thinnest part, $7/16$ "; face measurement of frame, $2\frac{11}{16}$ ". Veneered panel, 3-ply, laminated, $5/16$ " thick. Panel and insert frame of same wood. Curtis Special Waterproof Glue, which has passed all tests, used.

1865 CURTIS

Curtis Woodwork is sold by Curtis dealers east of the Rockies. Make sure the woodwork you buy bears this trademark. The makers of Curtis Woodwork are proud to identify their products by it.

CURTIS WOODWORK

DOORS • WINDOWS • FRAMES • MOLDINGS • TRIM • BUILT-IN CABINETWORK

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

"The HEALTH COUNCIL"

Because—in the building of every modern school—health, as well as mental efficiency, of many generations of school children, depend on the decisions of this small group of public spirited citizens (School Board members, Superintendent, Architect)—we refer to them here as "THE HEALTH COUNCIL."



The HEALTH COUNCIL

Selects June Weather as Produced by the American System

WHEN school board, superintendent and architect reach the decision that each and every child in every room shall have fresh air—clean, warm, humidified—then the selection of the American System of Heat with Ventilation automatically follows.

The American System will give your school 96% perfect June weather conditions all year round. Think, members of the Health Council, what that means with regard to the health of the pupils, their attendance, their mental alertness. Think, too, what it means in the efficiency of money invested in building, equipment, teaching staff—for these costs run on whether pupils come or not.

The first cost and operating costs of the American System are low—lower than those of any other system furnishing an adequate amount of fresh, warmed, humidified air.

Any fuel may be burned.

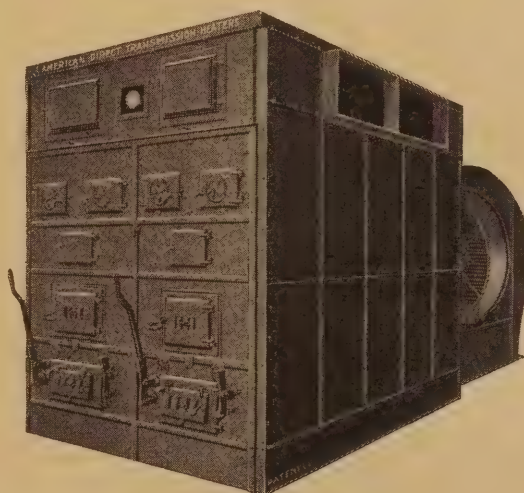
Only as many units as are required to maintain comfort need be fired. No fuel is wasted. The Astesto-Steel casings permit the delivery of 25% more heated air than is produced by brick-enclosed furnaces under like conditions.

There are no boilers, radiators or piping to freeze. The cast-iron construction does not rust and is many times as durable, under fire, as steel.

The illustration shows two units of the American System, with a fan that induces gentle but certain circulation of clean, warm, humidified air to every student in every room.

Get all the facts about The American System before your Health Council. Write to the nearest representative or to us.

For forty years one company, through its engineers and its authorized agents, has installed and guaranteed The American System.



Memo to ALL Architects!

While this advertisement features schools, THE AMERICAN SYSTEM is also ideal for any building where fresh, warmed, humidified air is needed in ample quantities at reasonable costs (Schools, Theatres, Churches, Factories, Auditoriums, Public Garages, etc.) Write us for specific facts and call on our engineering department for technical data or actual help in solving your heating and ventilating problems.

The American System of Heat with Ventilation

Equipment manufactured and guaranteed by

The American Foundry and Furnace Co., Bloomington, Ill.

Engineering and installations complete by

American Foundry & Furnace Co.
Bloomington, Ill. Milwaukee, Wis.
Chicago, Ill. St. Paul, Minn.
Madison, Wis.

American Heating & Ventilating Co.
Philadelphia Raleigh, N. C.
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W. H. Johnson & Son Co.
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American Warming & Ventilating Co.
Cleveland, O. Toledo, O.
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John H. Kitchen & Co., Kansas City, Mo.
Michigan Warming & Ventilating Co.
Grand Rapids, Mich.
Larimer-Lavier, Inc.
Los Angeles, Cal.
Lige Heating & Ventilating Co.
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International Sales Corporation
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Seattle, Wash. Portland, Ore.
Supreme Heater & Ventilating Co.
St. Louis, Mo.
Gillespie-Dwyer Co.
Chicago, Ill.

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Forty-eight Years ago

A Mississippi packet brought to this old plantation a shipment of Byers Pipe

ABOUT 20 miles above New Orleans, on the east bank of the Mississippi, stood the old plantation home of the Destrehans. Surrounding it, all the way from levee back to the swamps, were waving fields of sugar cane.

In 1878 a packet boat brought to this plantation a shipment of Byers Pipe which had come down the river from Pittsburgh.

The year was a memorable one in those parts, for the Mississippi Delta was swept by a terrifying epidemic of yellow fever. The cabin of the boat which brought the pipe presented a ghastly spectacle, for it was cluttered with the corpses of fever victims who had died on the way from Memphis.

In this cabin, the plantation manager receipted for the pipe and proceeded to install it for supplying water from the river to the sugar factory, half a mile distant.

The pipe remained in the moist loam for forty years. When dug

out in 1918, the scene had greatly changed. The cane fields were gone. A modern petroleum refinery had replaced the old sugar factory, burned to the ground in 1912. But the pipe was still good. It had suffered so little from corrosion that every foot of it was salvaged for use about the new refinery.

Byers Pipe now, as 50 years ago, is made of old-fashioned genuine wrought iron which has become famous for its great resistance to rust. This pipe, black or galvanized, when installed in buildings or laid underground, may be depended on to last for generations to come. Cheaper pipe is of doubtful life. More expensive pipe will not serve better.

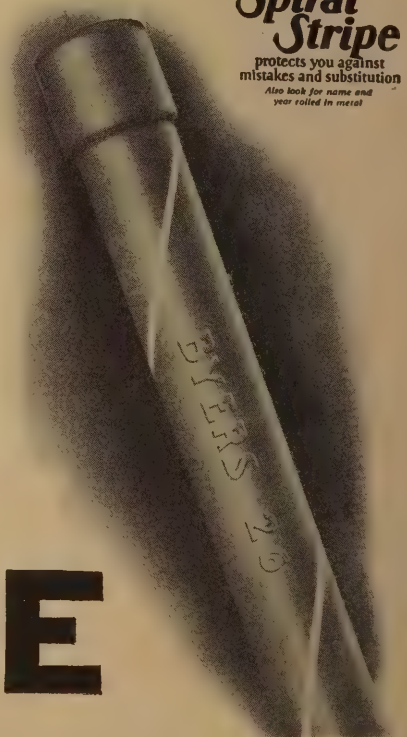
Booklet "On the Trail of Byers Pipe" contains illustrations of noteworthy old buildings equipped with Byers Pipe. Send for this booklet. It is free.

A. M. BYERS COMPANY
Established 1864 Pittsburgh, Pa.

New York	Philadelphia	Boston
Chicago	Los Angeles	Cleveland
Cincinnati	Rochester	St. Louis
Tulsa	Houston	Jacksonville

Distributors in all Jobbing Centers

the
**Spiral
Stripe**
protects you against
mistakes and substitution
Also look for name and
year rolled in metal



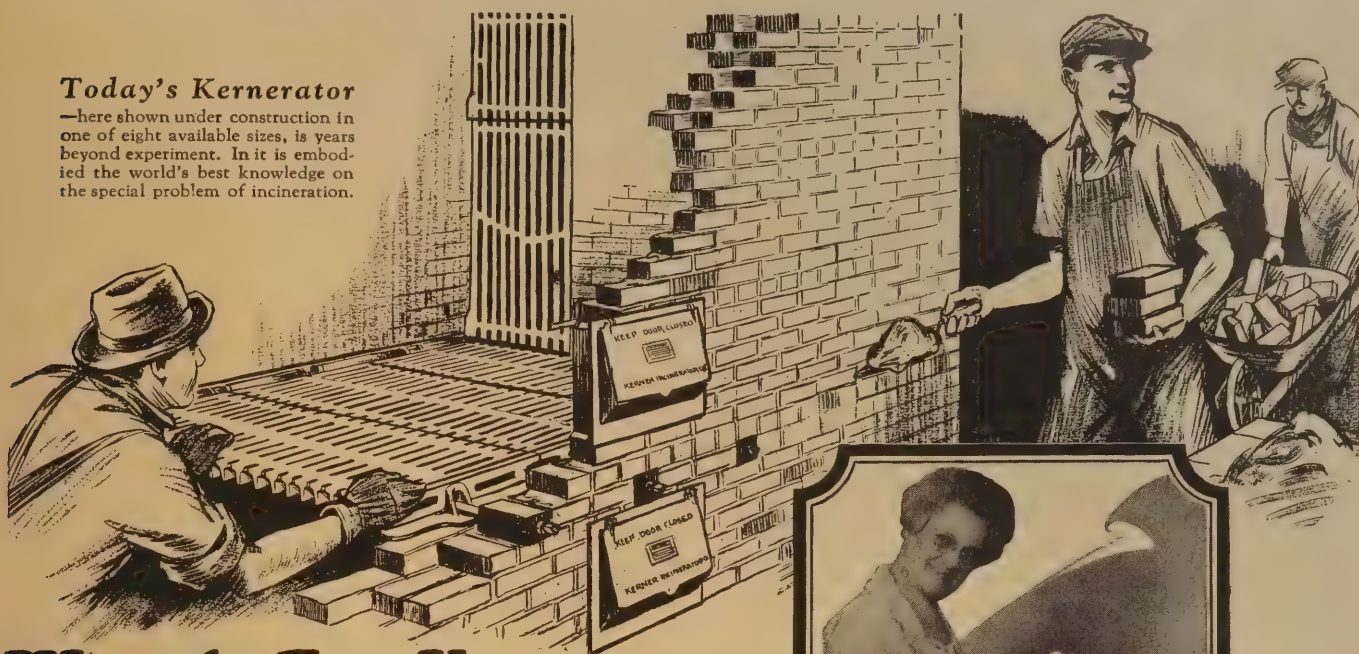
BYERS PIPE

GENUINE WROUGHT IRON

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Today's Kernerator

—here shown under construction in one of eight available sizes, is years beyond experiment. In it is embodied the world's best knowledge on the special problem of incineration.



Why the First Kernerator *built experimentally fifteen years ago* Wouldn't Work

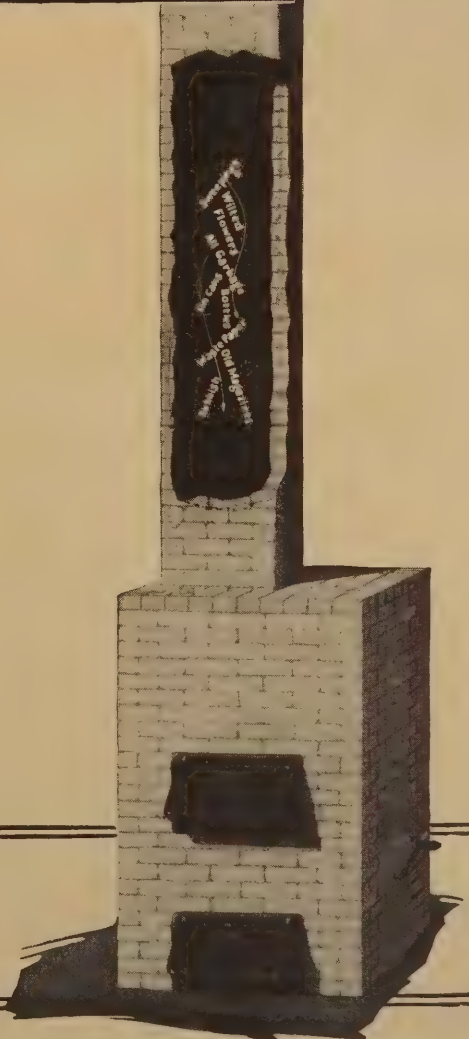
When the first Kernerator was built—fore-runner of today's time-tried system of costless garbage and waste disposal—it wouldn't work. It smouldered, smoked, sulked and quit cold. Then painstaking research resulted in the exclusive, patented Kernerator "By-Pass" feature — the heart of the present Kernerator.

Without this *patented* Kernerator "By-Pass", developed by the inventors and pioneers of flue-fed incineration, combustion of trash and garbage without fuel other than the waste itself, *cannot be efficient or satisfactory.*

Such factors as smoke and flame control, odor-elimination, draft-creation, air-movement, moisture-eradication, gas distillation — these were not arrived at haphazardly in developing the Kernerator to its present state of high efficiency. They are not mere idle phrases, but vital considerations — and the Kernerator engineering personnel has mastered them.

Full details of the Kernerator appear on pages 2800-01, Sweet's (1925). For additional information, feel free to call upon your local Kernerator representative (see telephone directory) or write:

KERNER INCINERATOR Co., 719 East Water St., Milwaukee, Wis.



KERNERATOR

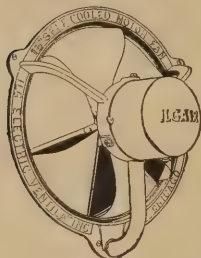
Built-in-the-Chimney
 Reg. U. S. Patent Office

The **ILGAIR** is the only Ventilating Fan Made Tested, Sold and Guaranteed as a Complete Unit



An ILGAIR Ventilator installed in wall opening of a modern Oak Park, Illinois Residence.

Make the **ILGAIR** Ventilator a Part of the Home



The ILGAIR Ventilator is a compact, quiet-running exhaust fan, built especially for kitchens. Easily installed in the window, transom or wall opening.

CLEANLINESS in the home should begin in the kitchen—here is the source of greasy fumes and cooking odors that trail thru the house and linger for hours. Nowadays, the kitchen of the modern home is ventilated with an

ILGAIR

A turn of a switch affords a constant circulation of pure, invigorating air, and quickly exhausts every trace of objectionable cooking odors, smoke, steam and greasy atmosphere, affording an inviting kitchen and a comfortable home. The ILGAIR is recommended by architects and builders everywhere—the only ventilating fan with a *fully enclosed, self-cooled motor*. Write for illustrated literature, or communicate with us on any ventilating problem.



The ILG Patented Automatic Shutter prevents ingress of rain or snow and down drafts. It opens with force of air current from fan and closes automatically by gravity.

ILG ELECTRIC VENTILATING CO., 2871 N. Crawford Ave., CHICAGO, ILL.

Ventilation

For Stores, Offices
Factories, Public Buildings
Restaurants, Theatres, Homes, etc.

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

Old Reliable

"2081" in the Specifications

Through the changing styles in electric switches, one stands out with the changeless merit of an "Old Master." This OLD RELIABLE—"2081."

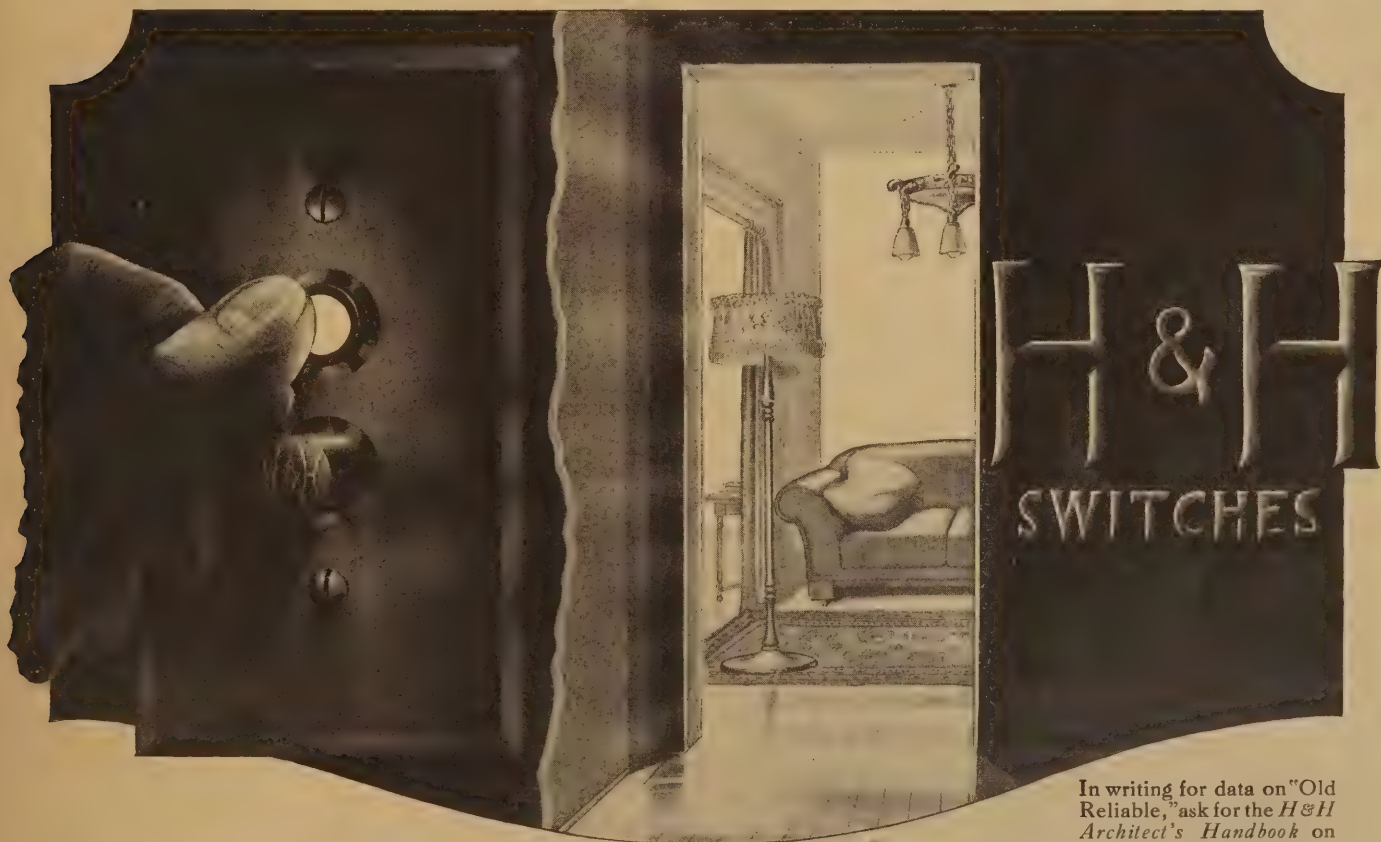
Approved for more than a generation, the architect's favorite from the first, the genius of its design keeps it perennially in the specifications.

Square Handle Tumblers have come into vogue; "balanced movements" by H&H; milestones of switch-making. But none have replaced "Old Reliable" for faithful service.

The buttons press with an even tension; no more resistance near the end of the stroke than at the beginning. No jar as the spring acts and the contacts meet.

In the whole installation, it's the one place your client *feels* Quality. It puts him *in touch* with electrical standards. Impresses a sense of craftsmanship!

Not so high-priced as some switches; not so low as some others. Just a splendid value in-between—and just the switch for many a job that's built to outlast "style."



"2081" in your specifications

In writing for data on "Old Reliable," ask for the *H&H Architect's Handbook on Switches, Convenience Outlets and other devices.*

THE HART & HEGEMAN MFG. CO. HARTFORD, CONN.

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Von Duprin

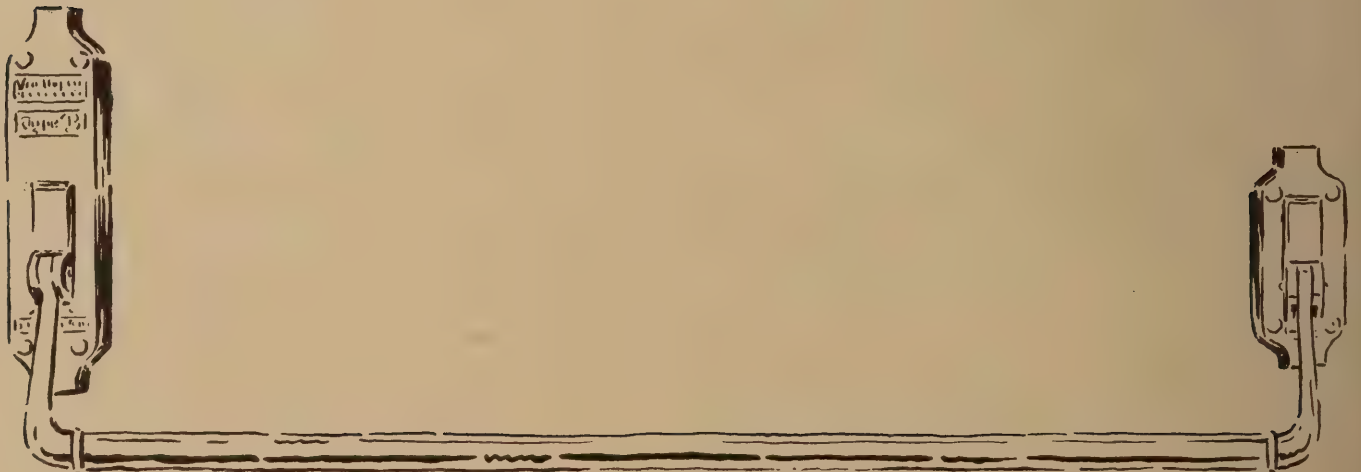
TRADE MARK REG. U. S. PATENT OFFICE

Self-Releasing Fire Exit Latches

The lives of its school children are a city's most precious asset. The school boards of most important American cities recognize this and make Von Duprin latches standard equipment on their school house doors.

ADA

VONNEGUT
HARDWARE CO.
Indianapolis, Ind.



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GOLD SEAL INLAID
Belflor Pattern No. 7151-3

A typical example of the way Belflor adds an individuality one cannot hope to secure with ordinary flooring. The buff and ivory design above is GOLD SEAL INLAID, Belflor Pattern No. 7151-4.



GOLD SEAL INLAID
Belflor 4½" Inset Tile Pattern
No. 2155-1

THAT INVARIABLE DEMAND of home-builders for something "a little different" is very readily answered by recommending floors of Nairn GOLD SEAL INLAIDS.

A client cannot fail to recognize that an interior gains character and individuality when the floor becomes part of the decorative scheme. Self-evident, also, are the practical advantages of flooring which will not splinter or



wear white, will never require expensive re-finishing. GOLD SEAL INLAIDS are genuine inlaid linoleum of a quality proved extraordinarily trustworthy through nearly forty years' widespread use.

One of the Belflor patterns in GOLD SEAL INLAID, with the characteristic mottling of color, is shown in the hall and living room pictured above.

Further information is given on the next page.

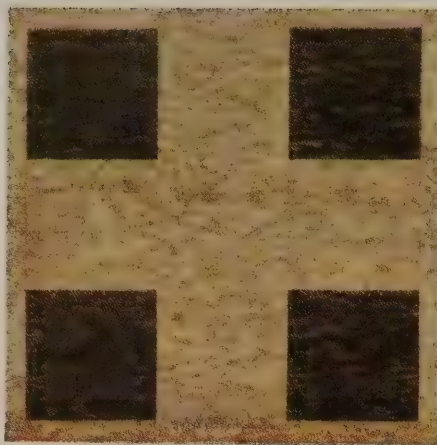
(See next page)

NAIRN

GOLD SEAL INLAIDS



GOLD SEAL INLAID
Belflor 6" Inset Tile Pattern No. 2155-2



GOLD SEAL INLAID
Belflor 6" Inset Tile Pattern No. 2155-3



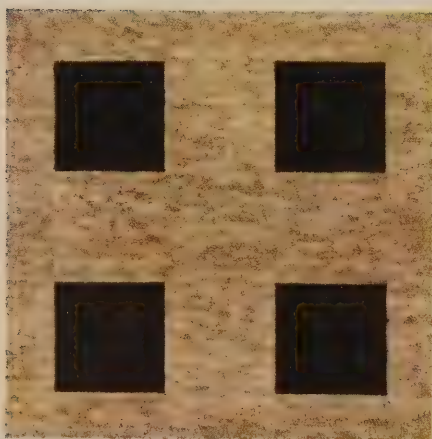
GOLD SEAL INLAID
Belflor 6" Inset Tile Pattern No. 2155-4



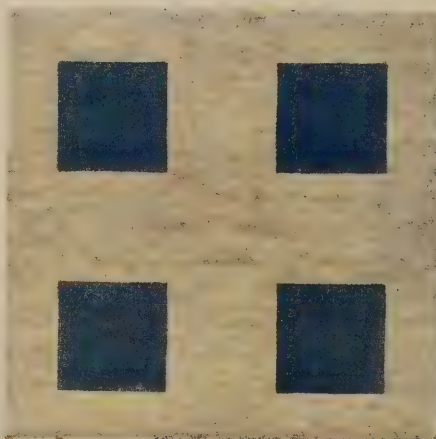
GOLD SEAL INLAID
Belflor Pattern No. 2154-4



GOLD SEAL INLAID
Belflor Pattern No. 2154-3



GOLD SEAL INLAID
Belflor 4½" Inset Tile Pattern No. 2152-4



GOLD SEAL INLAID
Belflor 4½" Inset Tile Pattern No. 2152-2



GOLD SEAL INLAID
Belflor 4½" Inset Tile Pattern No. 2152-3

HERE you see a few of the new patterns offered in GOLD SEAL INLAIDS. Especial attention is directed to the *Belflor Inset Tile* designs. The novelty and charm of these patterns of genuine inlaid linoleum are certain to appeal to discriminating home-builders who desire individuality in the decorative treatment of their floors at moderate expense.

Numerous other types of designs are also available. In fact, ample provision for every room in the house and for any type of decorative scheme is made by GOLD SEAL INLAID patterns.

Let us send you "life size" color reproductions of these GOLD SEAL INLAID patterns—and samples of the goods themselves after you have made your selection.

CONGOLEUM-NAIRN INC.

PHILADELPHIA
KANSAS CITY

NEW YORK
SAN FRANCISCO

BOSTON
ATLANTA

CHICAGO
MINNEAPOLIS

CLEVELAND
DALLAS

PITTSBURGH
NEW ORLEANS

(See preceding page)

NAIRN GOLD SEAL INLAIDS



Able to Buy Any Burner They Choose Silent Automatic

It Is Silent

Because the Silent Automatic converts fuel oil into a vapor and burns the vapor as a gas, its flame is not of the roaring target type, but is a silent blanket of fire that covers and wipes the heating surfaces.

It Is Trouble Proof

Blowers, delicate valves and jets have been eliminated. The smallest burner opening through which fuel passes is one-fourth inch in diameter. These openings cannot clog or carbonize—thus, Silent Automatic is as nearly trouble-proof as any mechanical appliance can be.

It Is Easily Installed

No change is made in the furnace or boiler except to remove the grates and lay a Silent Automatic Hearth in their place.

It Has Capacity

Type "A" Silent Automatic will serve heating units up to 3500-ft. steam boiler rating.

Among the homes in which Silent Automatics are now installed are many that were built without restriction as to heating equipment—homes owned by men and women who could afford the highest priced oil burners on the market.

These owners—and their architects—have chosen the Silent Automatic Oil Burner not because it is priced at only \$350, but because it gives them *perfected*

\$350

Installed with complete automatic safety and operating control equipment.

Cost of tank for each installation depends on oil storage desired.

oil heat, with the added advantages of noiseless operation and freedom from mechanical trouble. Silent Automatic satisfies all requirements of any home for which oil heat may be considered. In mechanical excellence it compares favorably

with the highest priced burners of its type, yet it makes efficient oil heating a practical possibility to those who must consider moderate price and low upkeep cost.

Specifications and complete descriptive material on request

SILENT AUTOMATIC CORPORATION, 255 Meldrum Ave., DETROIT, MICH.

SILENT AUTOMATIC



THE NOISELESS OIL BURNER

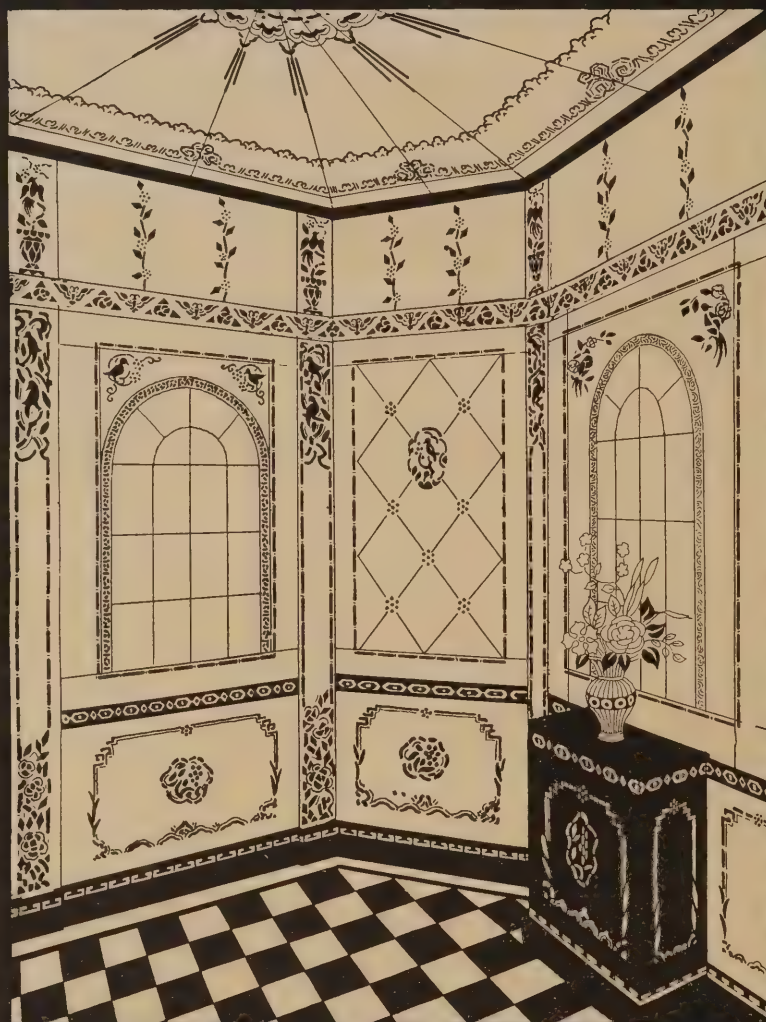
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**THE LACQUERED COROMANDEL
SCREENS OF CHINA SO RICH IN
DECORATIVE ELEMENTS HAVE IN VITROLITE AN
ENDURING MEDIUM FOR THE RECREATION OF THEIR
FRAGILE BEAUTY. THE EARTH FLOWERS BIRDS
BUTTERFLIES CLOUDS AND THE RAYS OF THE SUN
ALL SYMBOLIC IN CHINESE ART GIVE SPECIAL
INTEREST TO THIS CHARMING COMPOSITION IN THE
VITROLITE SHOWROOMS PERSHING
SQUARE BUILDING NEW YORK.**



PETER

VITROLITE



**A VISIT TO THE
RECENTLY COMPLETED
VITROLITE SHOWROOMS
IN NEW YORK AND CHICAGO
REVEALS EFFECTS
UNATTAINABLE IN ANY OTHER
MATERIAL WHICH GIVE A NEW
IMPETUS TO THE CREATIVE
FACULTY AND AN ENLARGED
VISION OF DECORATIVE
POSSIBILITIES**

**THESE SHOWROOMS WERE
DESIGNED IN THE VITROLITE
ART DEPARTMENT WHERE A
STAFF OF TALENTED ARTISTS
AND DESIGNERS IS AT THE
DISPOSAL OF ARCHITECTS FOR
THE PREPARATION OF
SKETCHES AND WORKING
DRAWINGS OF VITROLITE
INTERIORS AND
ACCESSORIES**

**133 W. WASHINGTON ST.
CHICAGO**

THE VITROLITE COMPANY

**FACTORY
PARKERSBURG, W. VA.**

BRANCHES

**ATLANTA
BALTIMORE
BOSTON
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**CLEVELAND
COLUMBUS
DALLAS
DENVER
DETROIT
KANSAS CITY**

**LOS ANGELES
MIAMI
MINNEAPOLIS
NEW ORLEANS
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OMAHA**

**PHILADELPHIA
PITTSBURGH
PORTLAND
PROVIDENCE
SAN FRANCISCO
SEATTLE**

**SPRINGFIELD, MASS.
ST. LOUIS
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**HONOLULU
JOHANNESBURG
LONDON
MANILA
MELBOURNE
MEXICO CITY**

**MONTREAL
OSAKA
SAN JUAN
SHANGHAI
TORONTO**

Here's more **EVIDENCE** of **LEADERSHIP**!



Paul Brown Building, St. Louis,
Mo., Preston J. Bradshaw,
Architect, Brussel and Viterbo,
Engineers, Alfred Monschein,
General Contractor.

*Economical
Practical
Dependable*

400 Tons of Steel Joists

In the Paul Brown Building, St. Louis, Mo., 400 tons of GF Steel Joists lend firesafety and strength to the floor construction. In hundreds of other small and large buildings throughout the country GF Steel Joists are furnishing modern firesafe construction

at low cost. Erection is particularly rapid and economical due to the elimination of field work by these factory fabricated joists. Further savings result from the ease of handling and the absence of expensive concrete apparatus.

Return coupon for GF Steel Joist Catalog

THE GENERAL FIREPROOFING BUILDING PRODUCTS
YOUNGSTOWN, OHIO

Other GF Products

GF Trussit
GF Expanded Metal
GF Diamond Rib Lath
GF Herringbone
GF Key Lath
GF Corner Bead
GF Steel Channels
GF Peds
GF Duplex Steel Bridging
GF Steel Sash
GF Steel Basement and Casing Windows
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Send me catalog and full information on GF
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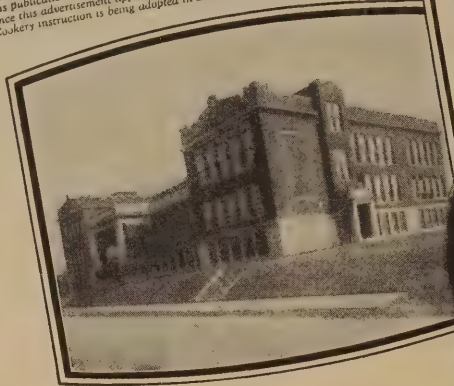
Address _____

AA

American Architect and Architectural Review
December 20, 1922

The photograph below shows Worley School, Canton, Ohio. (Ed. Herman, Architect, Canton, Ohio), which uses a New Process Lorain-equipped Gas Range for instruction purposes in the Domestic Science Department.

At the right is a reproduction of a Lorain advertisement from the May issue of this publication. Note the increase in schools using Lorain-equipped gas ranges since this advertisement appeared. This shows how fast the Lorain Method of Cookery instruction is being adopted in domestic science work.



Over 550 Schools Use Lorain-equipped Gas Ranges

THE LORAIN OVEN HEAT REGULATOR
The Lorain Oven Heat Regulator is a device which automatically maintains a definite temperature in the oven of a gas range. It is a simple, reliable, and efficient device which is used in thousands of homes and schools. It is the only device of its kind which is guaranteed to maintain a definite temperature in the oven of a gas range.



"Lorain" Now Used by Over 550 Schools

GAS RANGES equipped with the Lorain Oven Heat Regulator are used for cookery instruction purposes in the domestic science departments of over 550 of the leading schools and universities of America.

"Lorain" provides the one way to be certain that the gas range oven maintains a definite temperature for any desired period of time. The Red Wheel can be set at any one of 44 variations, over a range of 325 degrees of heat, and will hold that heat as long as desired—automatically.

Because Lorain-equipped gas ranges guarantee perfect baking and cooking results, thousands upon thousands have been sold to housewives all over America. Each finds that "Lorain" makes cooking a pleasure. These remarkable gas stoves are found in thousands of apartment houses, homes, churches and hospitals.

There's a style and size for every requirement. Catalog and data on special Lorain equipment for schools sent on request.

AMERICAN STOVE COMPANY
Largest Makers of Gas Ranges in the World
St. Louis, Mo.
1912 Chouteau Avenue

LORAIN

OVEN HEAT REGULATOR

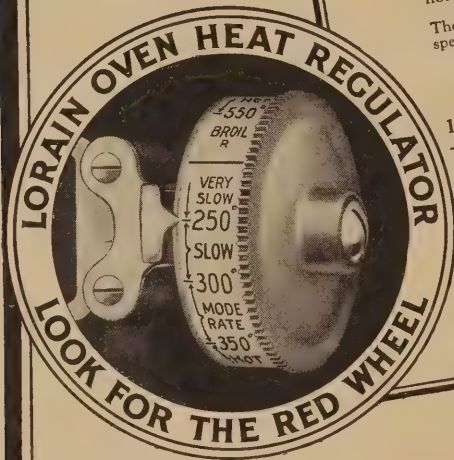


One easy turn of the Lorain Red Wheel gives the housewife a choice of 44 measured and controlled oven heats for any kind of oven cooking or baking.

Only these six famous makes of gas ranges are equipped with the Lorain Oven Heat Regulator:



CLARK JEWEL
NEW PROCESS
QUICK MEAL
RELIABLE
DANGLER and
DIRECT ACTION



Unless the Regulator has a RED WHEEL it is NOT a LORAIN

EACH year, in over 1600 schools and colleges, thousands of young women are learning to cook with Lorain Self-regulating Ovens. Each month millions of housewives see the advertisements of the Lorain Red Wheel that appear in their favorite magazines.

Each week, more and more of these women are demand-

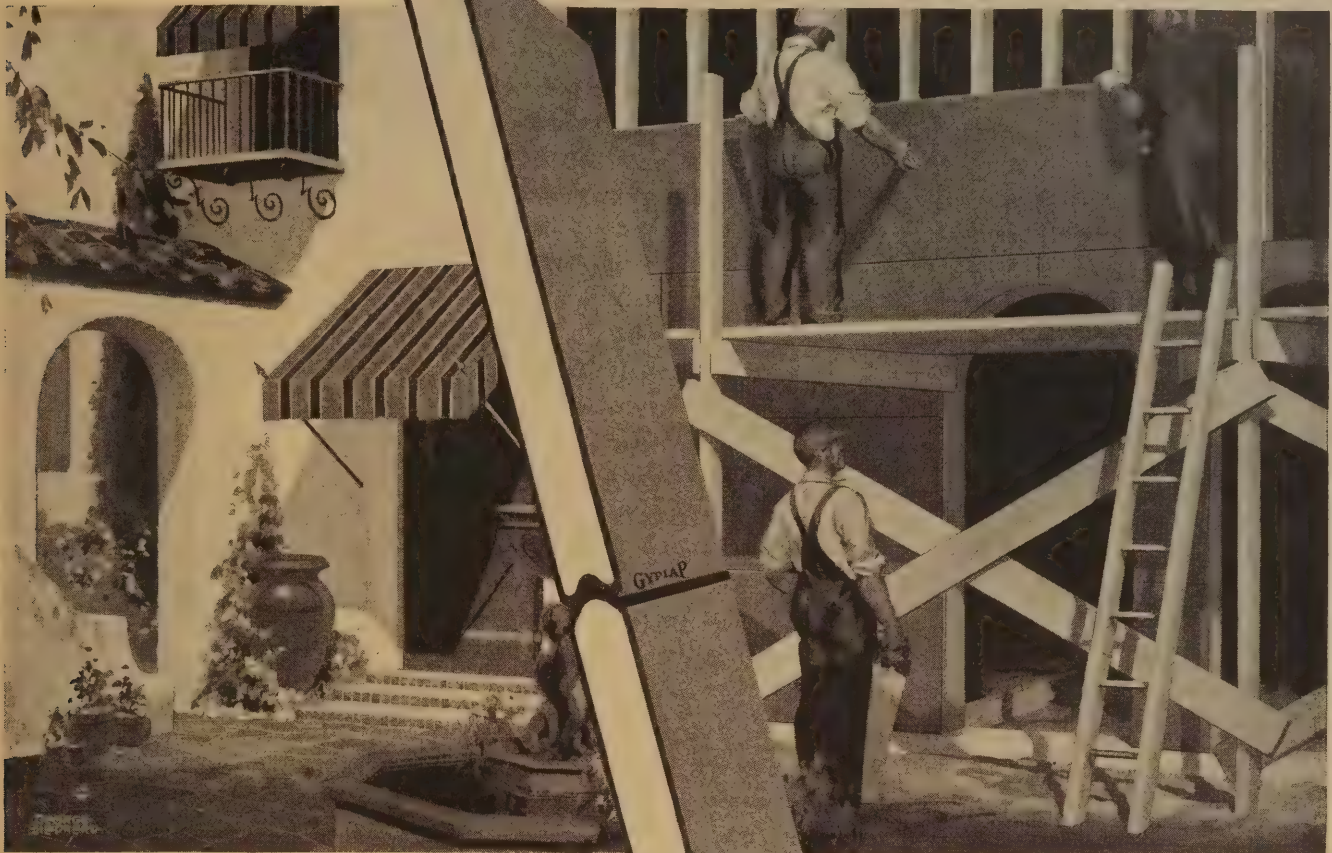
ing, in new houses and apartments, kitchens furnished with Lorain-equipped Gas Ranges. No substitute will do. They know the RED WHEEL.

For sizes, styles and finishes see 20th Edition, Sweet's Catalog, Pages 2769-2778 or send for our Handbook on Gas Ranges for Architects and Builders.

AMERICAN STOVE COMPANY, 333 Chouteau Ave., St. Louis, Mo.

Now over 1600

... For a Standardized Sheathing



Before the development of Gyp-Lap, as you well know, sheathing was as variable as the weather. Gyp-Lap has changed this condition by providing mineral lumber of uniformly standard dimensions. When you put Gyp-Lap in the specifications you are sure that the building it encloses will be *rigidly braced* against wind stresses and strains—that inflammable wood framework will be *protected* (Gyp-Lap cannot burn, ignite or transmit fire)—that the building will be

insulated against extremes of temperature.

Gyp-Lap goes up faster—its patented interlocking edges are *wind-tight*—making the cost of this much better sheathing the same or less than wood.

Special architectural data available upon request.

UNITED STATES GYPSUM COMPANY
General Offices: Dept. 426, 205 W. Monroe St., Chicago, Ill.

G Y P - L A P

Reg. U. S. Pat. Off.

The FIREPROOF Sheathing

... Clip and mail this coupon today! ...

UNITED STATES GYPSUM COMPANY, Dept. 426, 205 West Monroe Street, Chicago, Ill.

Please forward your special architectural data on Gyp-Lap.

Name.....

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City..... State.....

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

WEISTEEL

TRADE MARK
REGISTERED



James A. Garfield School, Belvedere Gardens, Los Angeles, Calif. Geo. M. Lindsey, Architect

“Now as to Toilet Compartments, I Have Specified Weisteel”

SUCH is the usual thing among architects today all over the country.

They know the dependability of Weisteel, its day-in and day-out always-on-the-job record. Weisteel “Dominant Features” guarantee dependability.

They like the friendly, specialized service of the Cooperative Plan. It helps them by eliminating detail and extra work.

*For Dependability and the Cooperative Plan,
just specify WEISTEEL*

Weisteel Dominant Features:

1. 16 gauge, Keystone copper-bearing, rust-resisting, furniture steel.
2. Weisteel special-design universal hinges, simple, fool-proof, durable.
3. Weisteel doors are electrically welded into one solid unit. Foot castings are brass. Brass latch and pull are nickel plated.
4. All joints are closed and sealed. No flat surfaces to catch and hold dirt.
5. Pleasing yet practical designs harmonize with other quality equipment.
6. Weisteel Cooperative Plan saves you time and cost.

Weisteel Cooperative Plan

Send us rough layout of toilet rooms, indicating plumbing facilities and requirements. We make up plans and specifications, sending them to you (with quotations if desired).

Compartments are shipped with simple diagram and complete erection instructions indexed to numbered compartment sections. No fitting, cutting or drilling is necessary when erecting and it is virtually impossible to make mistakes.

Under the Weisteel Cooperative Plan much time, work and worry are saved the architects; our cooperation with him is complete. Many years specialized experience in working out practical, completely satisfactory compartment installations for particular needs is at his service.

Architects specify more Weisteel Compartments than any other make.

WEISTEEL

TRADE MARK REGISTERED

COMPARTMENTS

**Toilet and
Shower
Compartments**

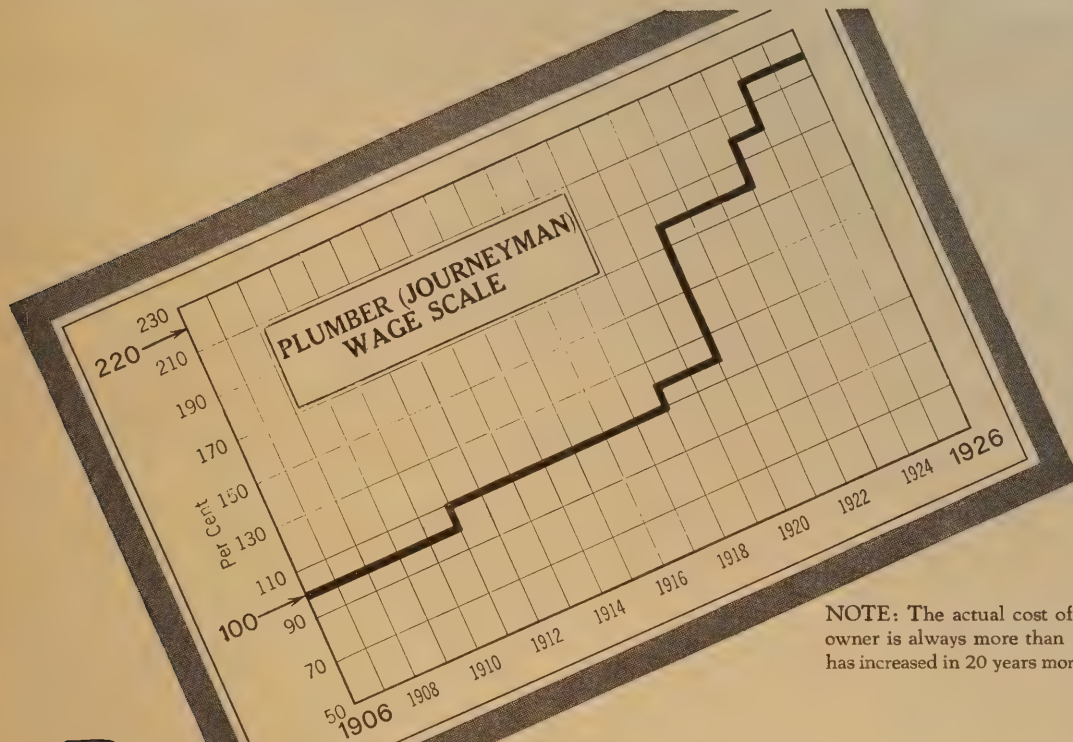
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Representatives in All Principal Cities

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NOTE: The actual cost of plumber's time to the owner is always more than the scale and this cost has increased in 20 years more than the scale.


Brass pipe expensive?

"Expensive" brass pipe is a habit of thought and started years ago when plumbers for a couple of dollars worked 10 hours a day. In those days we thought of expense in terms of material more than labor.

Today, with all conditions different, many of us still cling to the thought that brass pipe is expensive. If brass pipe was once expensive, by comparison under present conditions, it is cheap, for it costs *no more per pound today than it did 20 years ago* and it is ever so much better.

Today plumbers work 8 hours a day and journeymen must have helpers; a journeyman with his helper gets about \$20. instead of \$2. a day, and the whole plumbing institution is not only more expensive but larger and more complete.

Today it is a waste to expend the high-cost skilled labor on anything but the best material, which in plumbing includes Alpha brass pipe.



ALPHA Brass Pipe

FACTS

ALPHA brass pipe is better because it contains more copper and more lead than ordinary brass pipe, and yet it costs no more. Copper gives a toughness and ductility and increases its resistance to corrosion. More lead makes it cut and thread easier. Alpha has a superior finish and can be bent cold, thus avoiding elbows.

Every length of Alpha is trade-marked and guaranteed against season cracking.

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Chase Metal Works Chase Rolling Mills
STOCKS
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OFFICES
Boston New York Philadelphia Rochester
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Members Copper and Brass Research Association

Chase Companies, Inc., Waterbury, Conn. 1-6131-8

Please send me free of charge a copy of your book on Alpha Brass.

Name _____

Firm _____

Position _____

Address: _____

Comparison proves that DUROCK *is the whitest of white ware*

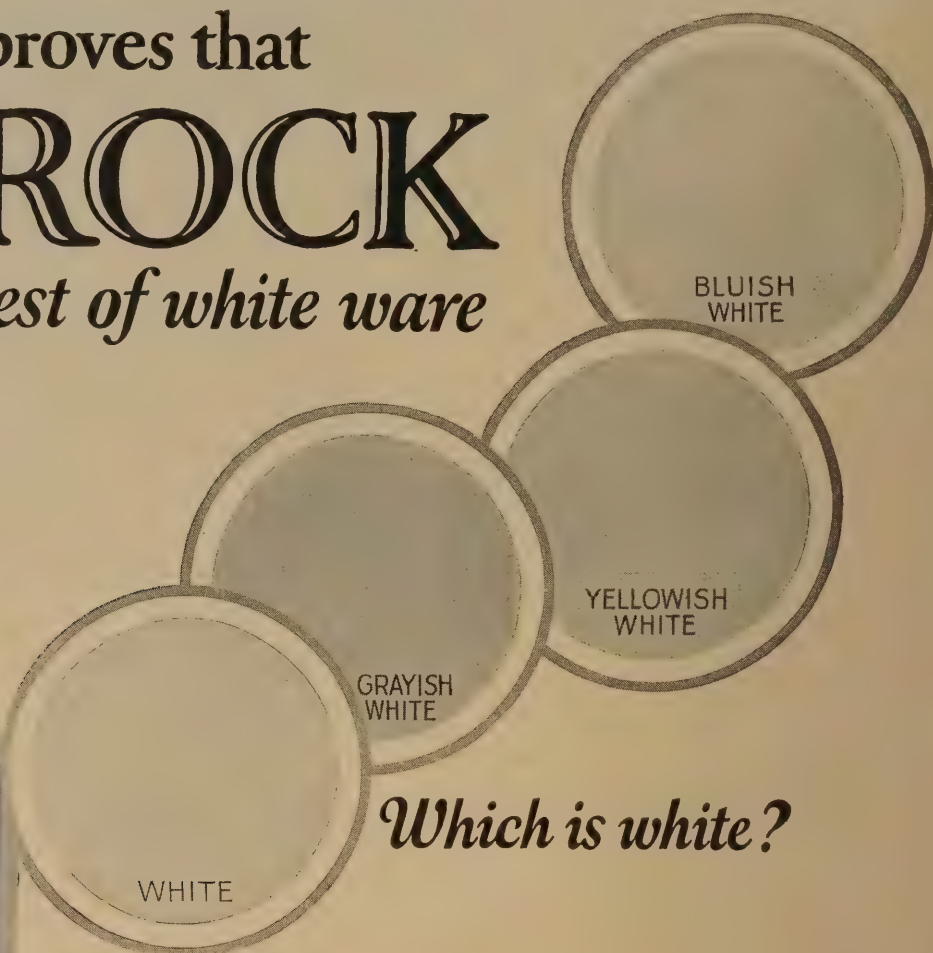


K-3050

A RESIDENCE toilet of latest design, sold at a moderate price. Quiet, rapid action; concealed twin jets accelerating the flushing. Tank and bowl of Durock, with mahogany finished seat and cover. Top of tank held securely in place by two hidden spring-clips.

Unusually ample water surface in the elongated bowl. Continuous oval-shaped seat, with opening three inches longer than the ordinary; this is an improvement that eliminates discomfort and prevents soiling. Measurements: water surface, 12 in. x 10 in.; opening of bowl, 15 in. long; seat opening 12 in. long. (Compare these measurements with those of ordinary toilets.)

The flushing mechanism in the tank is of such superior material and workmanship that it always works smoothly and easily; it never gets out of order; guaranteed against needing repair or replacement of parts.



Which is white?

THEORETICALLY there is only one WHITE; actually there are many tints of "white." Any "white", viewed alone, may appear to be pure white. But comparison will show some "whites" to be otherwise than neutral.

When you first see Durock, even by itself, you are struck with its sheer whiteness, its pronounced purity of whiteness—dazzling, immaculate. Then, placed beside another "white" ware, it alone appears to be really white.

That is why some white bathrooms give a more vivid impression of spotless cleanliness than others, although all may receive equal care and attention from their owners.

A bathroom equipped with fixtures of Durock always registers an enviable super-cleanliness upon those who enter it. It is a delight to look upon its gleaming, snowy beauty, and a pleasure to touch its smooth, glasslike surfaces.

Durock, too, is *permanently* white. It does not grow yellow or dingy with time; it cannot be stained nor discolored; it does not chip, crack, nor "craze"; it is truly "a joy forever".

Write us for as many copies as you can use of our booklet, "Maddock Bathrooms". They will help you "sell" clients on quality fixtures, and make them more appreciative of such fixtures when recommended. There will be no charge for the booklets.

THOMAS MADDOCK'S SONS COMPANY

Oldest Sanitary Potters in America

Trenton, N. J.



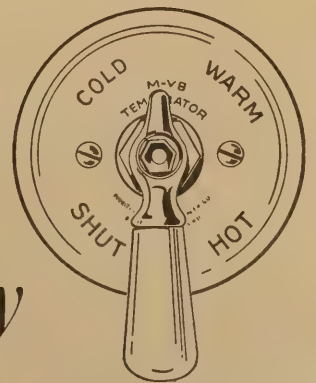
MADDOCK

DUROCK Bathroom Equipment

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

Hot when it says "hot,"
and cold when it says
"cold." Accurate control
of all shades between.
Any bather is happy to
have a dependable M-VB
Temperator. You will
find it worth while for
your best projects.

[A Mixing Valve]



The American Pin Company

Division Scovill Mfg. Co.

Waterbury, Conn., U. S. A.

33000 yards of carpet cleaned daily!

Sturtevant Stationary Suction Sweeper Keeps Beautiful Hotel Baker thoroughly clean!



Ladies' Lounge in Hotel Baker, Dallas, Texas



*Exterior,
Hotel Baker,
Dallas, Texas*

*P. E. Bradshaw,
Architect*

*Hamilton Co.,
Contractors*

THE new Baker Hotel, Dallas, Texas, a magnificent example of architectural design and engineering skill—is well equipped to handle successfully all the cleaning problems of its seven hundred rooms.

A Sturtevant Stationary Suction Sweeping System specially designed to handle four sweepers at once is keeping the thirty-three thousand yards of carpet, laid throughout this modern hotel, thoroughly clean, and the cleaning tools, furnished with this system, make it convenient to handle quickly such work as cleaning walls, moldings, draperies and the like.

Sturtevant Stationary Suction Sweeping Systems are invariably chosen for all types and sizes of buildings where a heavy duty cleaning system is necessary. They are simply constructed, economical in operation, practically free from vibration, and have powerful suction. Fans are protected against unbalancing, clogging and injury by the dust bag in the collector which catches all of the dirt and allows only the clean air to enter the vacuum producer.

Write for our bulletin 320. It has valuable information in it for the architect and is just the right size for his files.

B. F. STURTEVANT COMPANY

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ORANGEBURG

**UNDERFLOOR
DUCT SYSTEM**

Patented
March 17, 1925



*Citizens Bank Building,
Baltimore, Md.
Graham, Anderson,
Probst & White, Chi-
cago, architects and
engineers.*



**A complete electrical
distribution system
that fits in with any
office layout**

YOUR furniture layout need not be determined before installing the Orangeburg System of Underfloor Duct. This system provides a network of wire-ways permanently built into your floors. To open a new outlet anywhere in the system is a matter of very little time, labor or expense. No matter how often you change your floor plan you need not place one single desk out of reach of wire service — if you have the Orangeburg System.

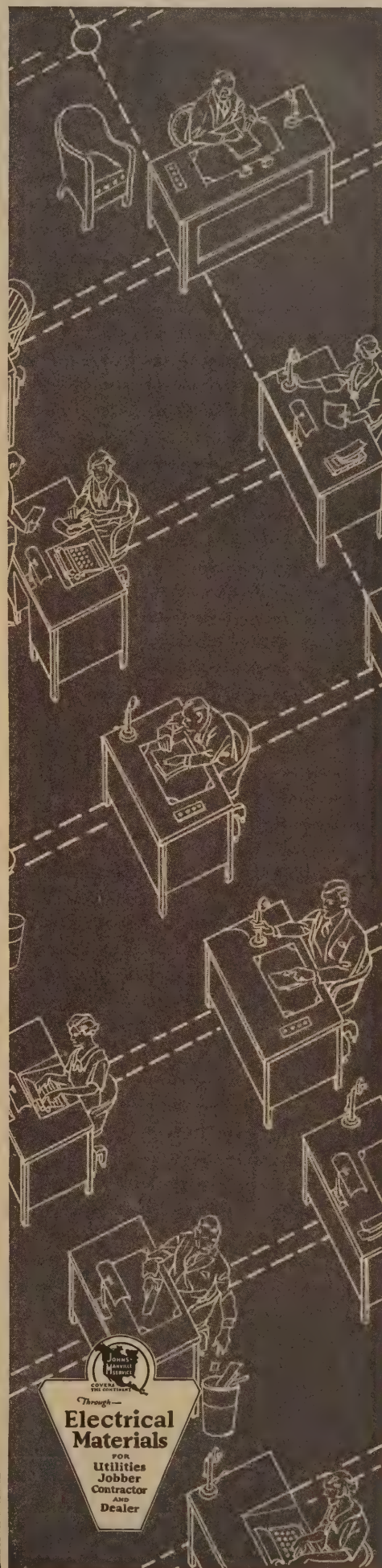
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292 Madison Ave. at 41st St., New York City

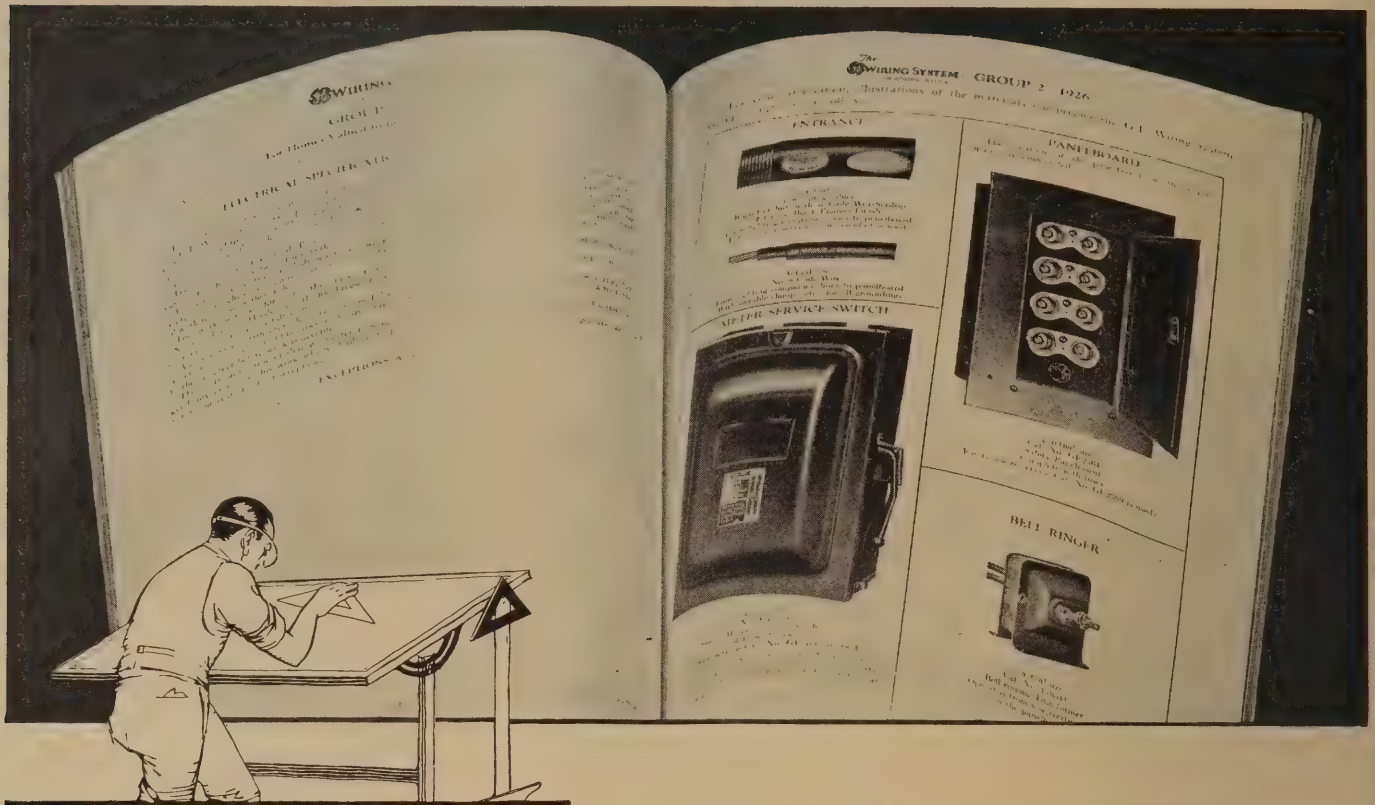
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Now you can specify a unit housewiring installation

The G-E Wiring System is a system of housewiring embodying adequate outlets, conveniently controlled, and using G-E materials throughout. If interested, address: Sec. AA-4

Merchandise Department
General Electric Company
Bridgeport, Conn.



For years, it has been easy enough to specify So-and-So's furnace or So-and-So's plumbing—or roofing—and to get known quality.

Now, the same thing is true in electrical wiring. You can specify a G-E Wiring System and know that you will get enduring quality in every piece of material used. You can practically specify it "by number" from the *Electrical Specification Data for Architects*. Contractors will cooperate by furnishing clearly itemized bids on a G-E Proposal Form. And every client will appreciate that he is getting lifetime service in the wiring inside his walls.



WIRING SYSTEM

—for lifetime service

GENERAL ELECTRIC

A. I. A. File No. 31c

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

They thank the architect

For those little extra touches that make a house different, artistic, and up to the minute, people thank the architect—and for those things that add to the comfort of the home, too.

That is why architects are equipping so many new houses with IDEAL Gas Boilers, made by American Radiator Company, and why so many old houses replace unsatisfactory heating with IDEAL Gas Boilers.

The compact, attractive looking, aluminum jacketed IDEAL Gas Boiler not only eliminates coal and ashes with the attendant dirt and labor of stoking and carrying out, but also adds an extra room to the house—a clean cellar available for a variety of uses.

Gas is coming into its own as the ideal method of warming homes and other buildings, large and small.

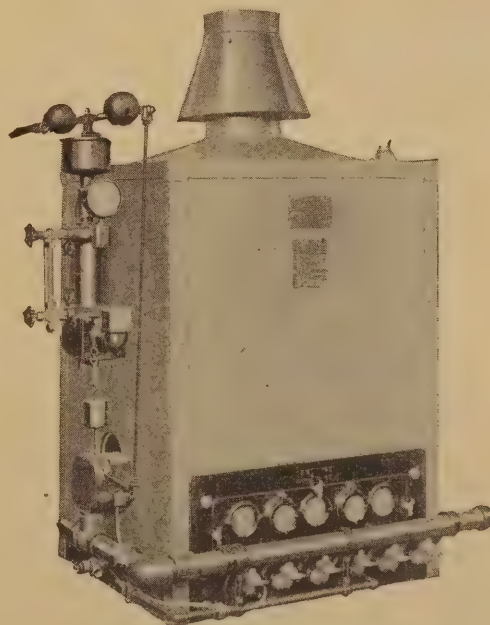
Absolute cleanliness, carefree comfort, super convenience (IDEAL Gas Boilers are automatically equipped with special safety equipment and require practically no attention), a flexibility and efficiency unequalled in any other type of heating system—is it any wonder that gas house-heating is winning its way on its own merits? And the establishment of "heating rates" by many gas companies makes the cost surprisingly low.

Don't you owe it to yourself to investigate gas heating from every angle that may affect your business?

IDEAL Gas Boilers burn natural or artificial gas and are made for steam, hot water or vapor and vacuum systems. They range in capacity from 225 to 8000 feet and are tested and rated according to the specifications of the American Gas Association.



Your local gas company, or we ourselves, will gladly supply you with full data and all information about IDEAL Gas Boilers. See them or write to us.



Type I-G Gas Boiler

IDEAL GAS BOILERS

Product of AMERICAN RADIATOR COMPANY

AMERICAN GAS PRODUCTS CORPORATION

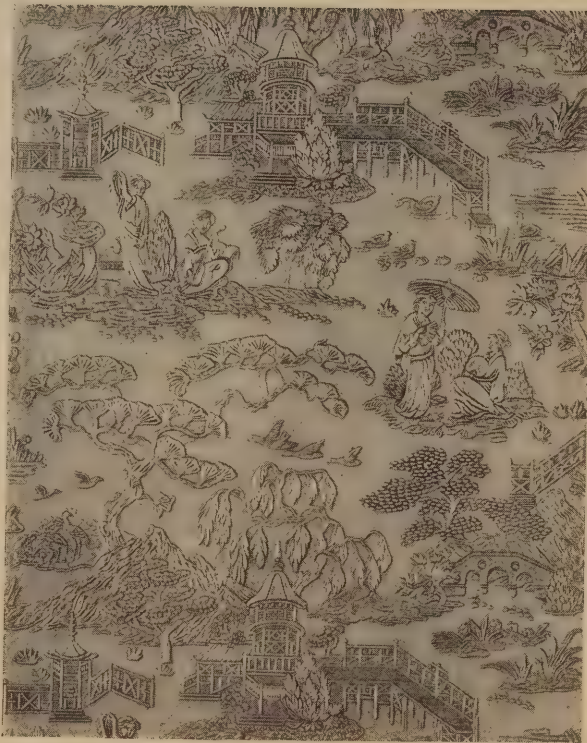
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Is moulded in relief on a paper backing
It is *not* printed on paper



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One of the new designs

*Lincrusta-
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75% of the material cost is Linseed Oil
its protective qualities make it
A Structural Product

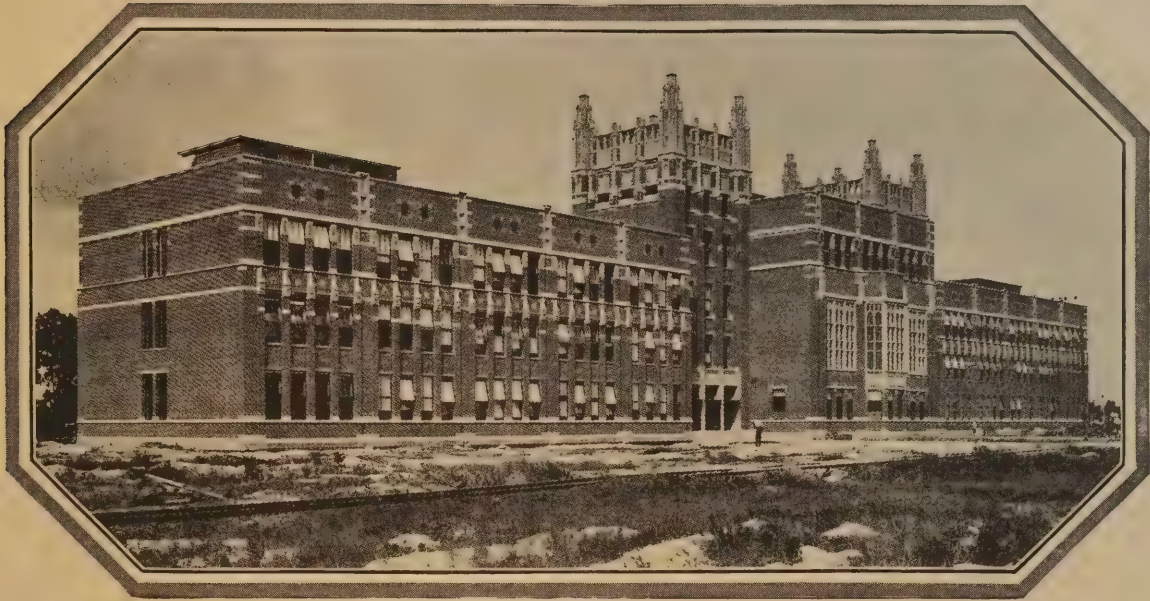
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HACKENSACK,

NEW JERSEY

THE LARGEST-SELLING MASON'S CEMENT IN THE WORLD



Evanston Township High School, Evanston, Ill. Perkins, Fellows & Hamilton, Architects; N. P. Severin Co., General Contractors.
BRIXMENT mortar used exclusively

BRIXMENT—your assurance of strength

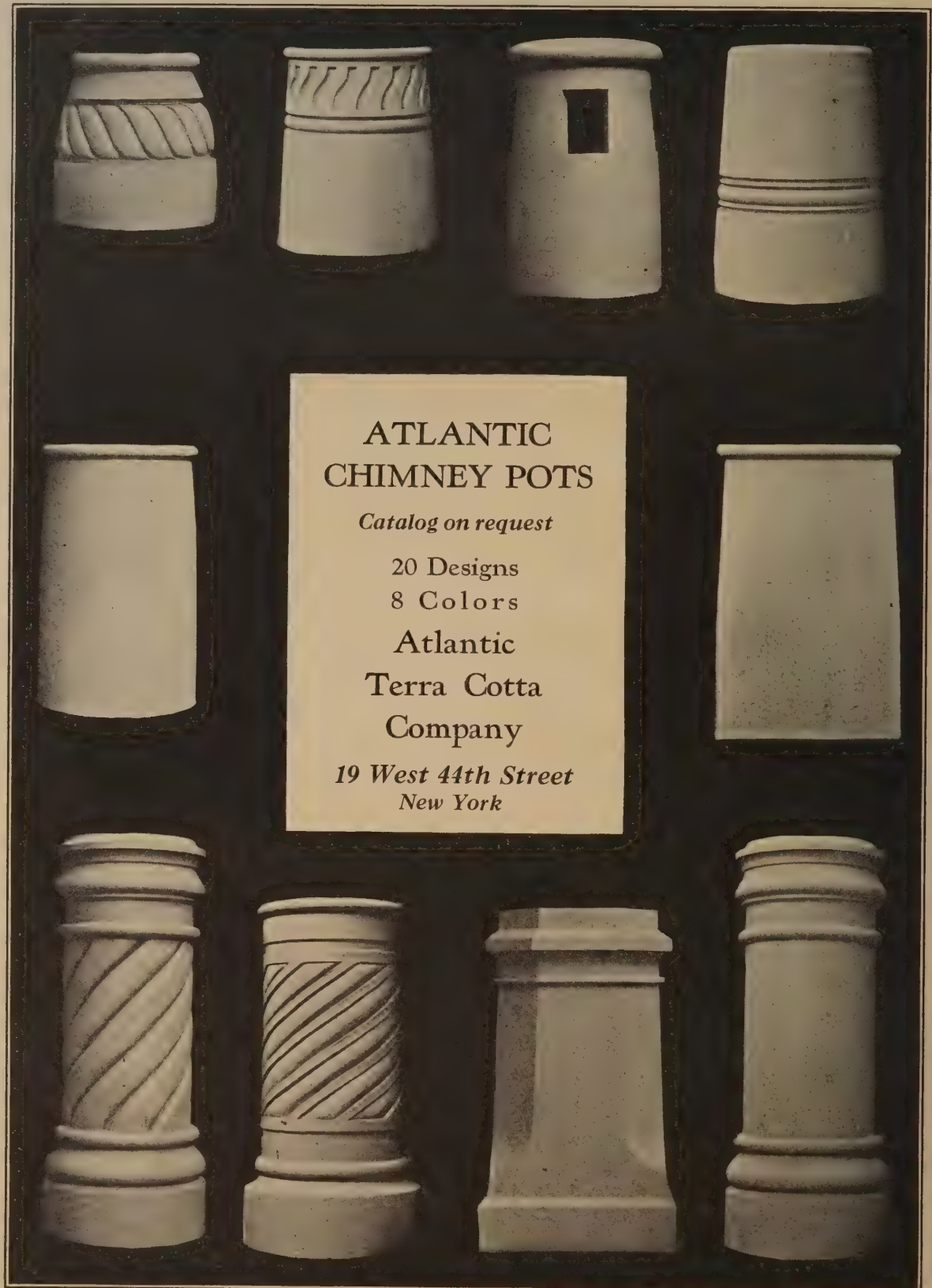
PERMANENCE of the wall is a foregone conclusion when BRIXMENT is used for mortar. Because BRIXMENT possesses an invariably high factor of safety and insures uniform strength throughout the entire wall . . . Because the unusual plasticity of BRIXMENT produces a closely-knit, well-keyed joint that makes the wall a solid unit . . . Because BRIXMENT, requiring no lime, prevents the scaling of joints and uncertainty in the mix . . . Because BRIXMENT mortar attains a final strength equal to that of the brick it binds. And BRIXMENT does not fade mortar colors. Send for architect's handbook.

LOUISVILLE CEMENT CO., Incorporated, Louisville, Ky.

Cement Manufacturers for Ninety-five Years



Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual





*The finish shown above is stained walnut which has long been a favorite with home lovers.
White enamel finish is shown in the hallway.*

For Every Room in the Home

NO MATTER what style of treatment is desired in interior trim, it can be obtained perfectly with the use of Dierks Superior Soft Pine. It has won wide favor with lumber men, architects, contractors and builders because of these advantages:

Its natural figure is beautiful and varied.

It has a smooth, soft, uniform texture.

It is free from pitch.

It is kiln-dried by a special

process preventing checking, twisting, shrinking and warping.

It is easily worked.

It stays in place permanently.

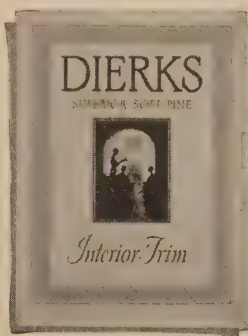
It is clean, bright stock, properly dried.

It takes and holds paints, stains or enamels perfectly.

It is properly manufactured from selected soft yellow pine timber.

It is shipped in clean cars.

It is grade-marked and trade-marked.



Write for free four color booklet of interiors

Dierks
Lumber & Coal Co.
Gates Bldg. Kansas City, Mo.

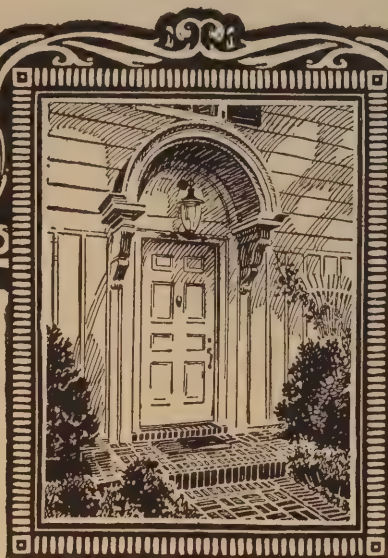


FROM a very small beginning as a retail lumber yard in 1880, the Dierks Lumber & Coal Company has grown and expanded its business until today it is recognized as one of the leading manufacturers of Southern Pine lumber.

Beginning as retail lumbermen, and engaging in the retail business for a number of years before expanding into the manufacturing field, the company understands the retailer's needs and problems to a degree that would otherwise not be possible.

The company's fixed purpose and policy from the beginning have been to produce lumber of superior quality, carefully manufactured and graded. Because of this, the lumberman who handles Dierks Superior Soft Pine can recommend it without reservations to his trade as dependable, high quality lumber.

Dierks
Lumber & Coal Co.
Gates Bldg. Kansas City, Mo.



ESSCO California White Pine

THOSE who have used lumber manufactured from timber on our tract testify as to its unusually soft texture, and the fine even grain of the wood.

Architects and builders are unanimous in their endorsement of its outstanding characteristics which are: soft and workable texture; close, even and uniform grain; pale, light tones in color; light weight; smooth, satiny surface without "raised grain" with a minimum of pitch or resin.

It is a favorite wood for all building purposes because of its ample strength and durability. It does not warp, swell, shrink, check, or split. It takes enamel and paint, perfectly, requires fewer coats and

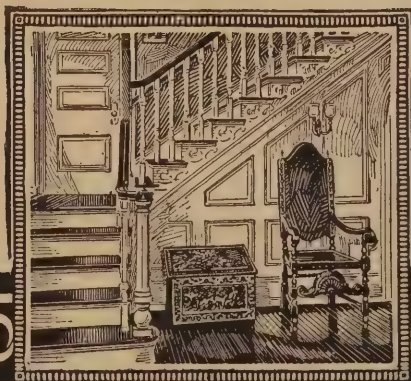
does not discolor enamel or paint. It cuts easily and smoothly, with or across grain—easy to fit hardware. It holds nails and screws firmly. It holds a sharp edge in moulding and detail work.

Essco California White Pine is used for all building purposes including doors, interior and exterior, window sash, window and door frames, interior finish and trim, interior panels, mouldings, ceiling and partition, built-in woodwork, exterior siding and trim, porch columns, sub-flooring, sheathing, framing, lath, farm buildings and concrete frames.

Essco California White Pine is produced and sold under the usual high standards of *Essco* manufacture and service.

EXCHANGE SAWMILLS SALES CO.

Kansas City, Mo.



The story time has told *a b o u t* Federal Roofs

RECORDS show that Federal Cement Tile Roofs have been stubbornly defying severe punishment for a quarter of a century.

Time, that stern judge of merit, has revealed that they do not require painting or patching, never rust, are unaffected by sun, rain, snow, sleet, ice or hail, and that they are also fire proof.

In fact, their trouble-free, no-maintenance service on thousands of permanent buildings, both industrial and public, has demonstrated that Federal Roofs are lower in ultimate cost than any other kind.

When you cover your buildings with Federal, you have the added advantage of installation by experts who have devoted years of study to the mastery of roof problems.

Perhaps you would like more detailed information about Federal and Federal Service. When you write, why not ask our engineering department to make an analysis of your own particular roof requirements? There is no obligation.

No building is too large, or too small, to profit by the maintenance-free advantages of Federal Cement Tile. They are made of pre-cast concrete thoroughly cured, and are the only roof tile in which all types are reinforced with wire mesh. For all flat and pitched surfaces.

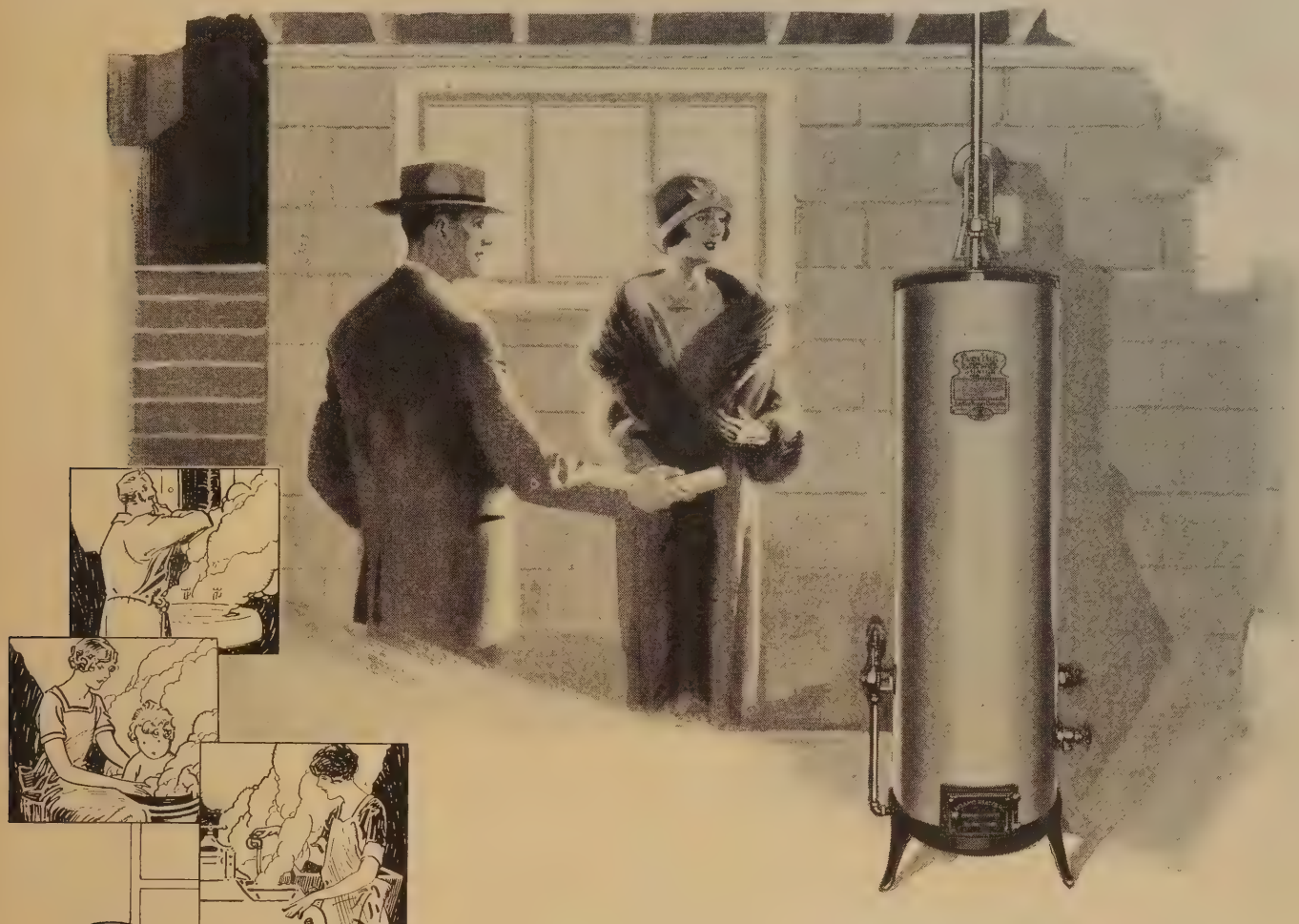
Made, Laid and Guaranteed by the

FEDERAL CEMENT TILE COMPANY

608 South Dearborn Street, Chicago, Illinois

FEDERAL CEMENT TILE ROOFS

"For Every Type of Permanent Building"



*A tiny
pilot keeps
a tankful
EverHot*



Here's an essential part of an Attractive Home

Furnishing, as it does, an unfailing supply of steaming hot water, the EverHot Automatic Heater contributes immeasurably to the livability of a home, yet adds little to its cost. In fact few household appliances are so inexpensive to purchase, install and operate.

The EverHot heats a generous tankful of water *once*—then keeps it hot with a tiny pilot light. This feature accounts in part for the low gas bills enjoyed by tens of thousands of

owners. There is no cheaper method of heating water for all home uses.

Naturally—such an item of equipment greatly enhances the desirability of a home and makes it both more attractive and a more comfortable place in which to live. No home—no matter how modest its cost—should be planned without an EverHot.

We refer you to Sweet's catalog for details or write us direct for Architect's Manual containing complete technical data, typical installations, layouts, etc.

EVERHOT HEATER CO., 5223 Wesson Ave., DETROIT, U. S. A.

EverHot

AUTOMATIC

WATER HEATER

(230)

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

Wrought Iron Pipe-Young at 67- Steel-Old After 9 Years!

By G. Moranz, Chief Engineer, Mercy Hospital, Chicago



*Note the Spiral Knurl
Mark stamped on every
foot of Reading Genu-
ine Wrought Iron Pipe.*

"THE old section of the Mercy Hospital was built in 1858, and a newer addition erected in 1890. Wrought iron pipe was used in both these buildings. In 1916 a new power plant was built in which steel pipe was installed. The 26-year-old wrought iron pipe removed from the old plant was sold by the wrecking company as new pipe.

"Our 35-year-old wrought iron pipe has given us no trouble whatever. Corrosion has caused some of our 67-year-old pipe to fail. But even this 67-year-old wrought iron pipe gives us nothing like the trouble caused by our 9-year-old steel pipe, which began to develop weaknesses a year after installation.

"An examination of most of the failures of the steel pipe shows that the threads at joints have rusted through. Now, less than 10 years after installation, 90 per cent of such joints have had to be repaired.

"What's the answer? For economy and efficiency there is nothing like Genuine Wrought Iron Pipe."

READING IRON COMPANY

READING, PA.

World's Largest Manufacturers of Genuine Wrought Iron Pipe

Boston
Pittsburgh
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New York
Cincinnati
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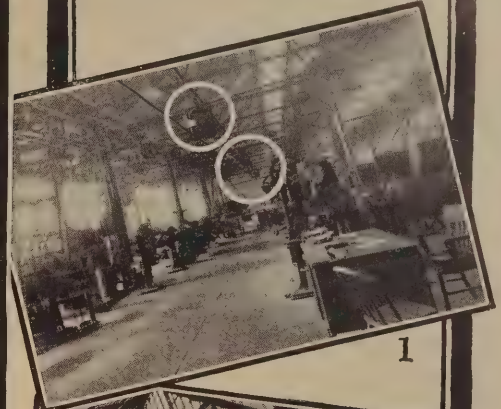
READING PIPE

GENUINE WROUGHT IRON

Suspends from Steam Line



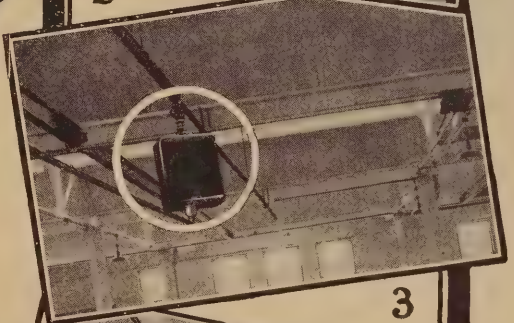
Typical Modine Unit Heater Installations:



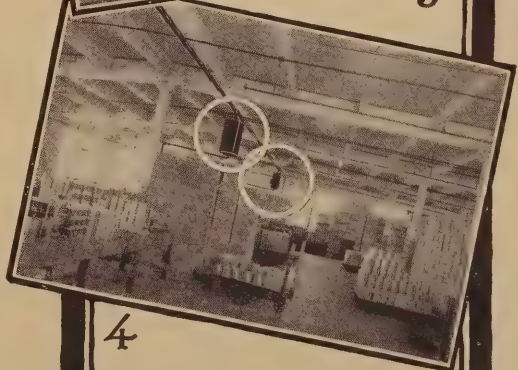
1



2



3



4

- 1 —Factory; 9,000 square feet; 4 Modine Units.
- 2 —Machine Shop; 10,000 sq. feet; 5 Modine Units.
- 3 —Public Garage; 11,000 sq. feet; 3 Modine Units.
- 4 —Varnish Packing Room; 6,000 square feet; 2 Modine Units.

Simplest of all Industrial Heating Installations

FOR the sake of installation economy as well as heating advantage, the Modine Unit Heater merits your thoughtful consideration. It simply suspends from the overhead steam or hot water supply line, at any discharge level desired, by means of a length of pipe and a union. No brackets, braces or structural supports required. Occupies less than $4\frac{1}{2}$ cubic feet of space. Instead of handling and supporting tons of dead weight you work with pounds—for each Modine Unit weighs only 125 lbs., yet equals the heating capacity of 700 square feet of direct radiation. Delivers 2000 cubic feet of heated air per minute in any direction desired. At 60° room temperature, the B. T. U. discharge is 165,000 per hour. Easily installed in 30 minutes—which often means days saved on a heating system installation.

Write for Bulletin "A" which has all the facts.

MODINE MANUFACTURING COMPANY
Heating Division **TherModine** Racine, Wisconsin
Concealed Heating

MODINE UNIT HEATER

for Steam or Hot Water Heating Systems

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



Inside this Chicago market
are thousands of
scuffling, scurrying feet!

Yet the concrete floors
remain permanently
dustproof and waterproof

EVERY day the concrete floors of the great South Water Street Market in Chicago receive the impact of thousands of pounding feet. Yet by a single treatment of Lapidolith these floors have been made permanently dustproof and wearproof. No matter how hard the service these floors may get, there will be no sign of worn spots—no unhealthful spreading of concrete dust.

Lapidolith is a liquid, chemical compound. It penetrates the porous cement, fills in the voids, and binds the concrete particles together. It will quickly change even an old floor surface into a fine, dense, crystalline struc-

ture of flint-like hardness.

Lapidolith is applied as easily as water. It is simply poured on the floor and spread around with a broom. Its ap-

plication causes no inconvenience. A floor treated at night is ready for business in the morning. A single complete treatment will give you concrete floors that will remain in excellent condition for many years.

Architects have been specifying Lapidolith for more than fifteen years. It has given many industrial plants, schools, stores and other buildings satisfactory service. We will be glad to send you samples and literature that will give you complete information.

LAPIDOLITH
TRADE MARK

Other Sonneborn Products

CEMCOAT—A paint that stays white longer than any similar paint; can be washed again and again; sticks to brick or concrete as easily as to wood; and usually requires one less coat. Made for both interiors and exteriors in white and colors, and in gloss, eggshell, or flat enamel finish.

STORMTIGHT—The famous semi-liquid compound for mending and preserving roofs. This thick, adhesive, rubber-like material can be applied by anyone, over any kind of roof, and it gives a tight new surface that lasts for years. Made in four beautiful colors. Mends one leak or waterproofs an entire roof surface.

HYDROCIDE—A complete line of water-proofing and damp-proofing products for walls, copings, foundations, etc. There is a special Hydrocide for each class of use. For instance, on exterior walls Hydrocide Colorless retains the natural beauty of the wall.

LIGNOPHOL—A preservative dressing that penetrates wood floors, restoring the natural gum and oil to the wood. Prevents rotting, splintering and drying out. A Lignophol-treated floor is not sticky; it can be washed; and it does not require the application of floor oils. One application lasts for many years.

Send for free sample of any of these products

L. Sonneborn Sons, Inc.
114 Fifth Ave., New York City

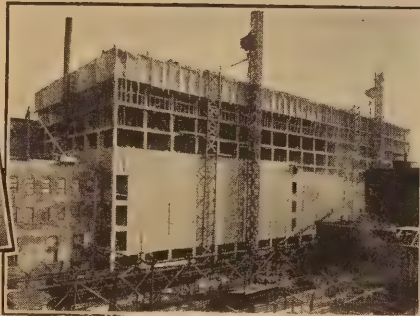
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Chicago — approves of RAIL STEEL



COOK COUNTY HOSPITAL



MORRIS & CO.
COLD STORAGE BLDG. No. 4



FULTON MARKET COLD
STORAGE



LIBBY, McNEIL & LIBBY
BLUE ISLAND PLANT



SHERIDAN PLAZA HOTEL

*THE ABOVE STRUCTURES are reinforced
throughout with RAIL STEEL BARS*

WHY?

Strength—

because for reinforcing concrete
RAIL STEEL BARS are the
strongest to be had.

Safety—

because using the same unit stress,
the factor of safety is greater with
RAIL STEEL BARS than any
others available.

Economy—

because of the simplified practice
in manufacture.

Specify your reinforcing to meet A. S. T. M.
Specifications A-16-14.

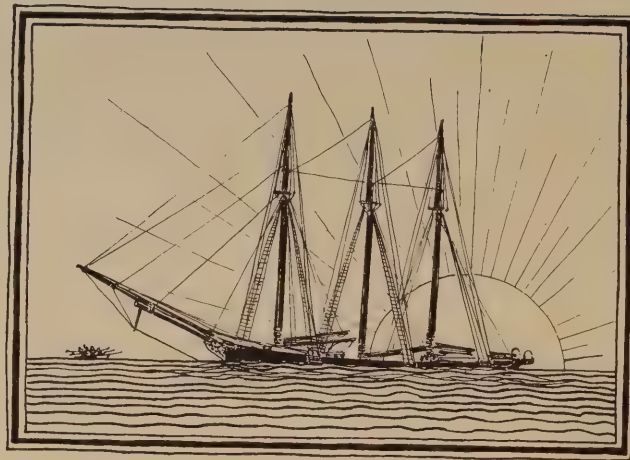
RAIL STEEL BAR ASSOCIATION

BUFFALO STEEL CO.,
Tonawanda, N. Y.
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RAIL STEEL for REINFORCING



Waterlogged or Waterproofed

Ordinary shingle stains permit shingles to absorb quantities of water. The shingles become waterlogged.

Parker's Art In Shingle Stains, made with an oil base, keep the water out and prolong their life.

Stains made with an oil base do not burn the shingles or trim. They do not leave a disagreeable odor.

*Useful literature and samples will
be sent to Architects upon request.*

PARKER, PRESTON & CO., Inc.
NORWICH, CONN.



Englewood Hospital

Crow, Lewis & Wick, Architects

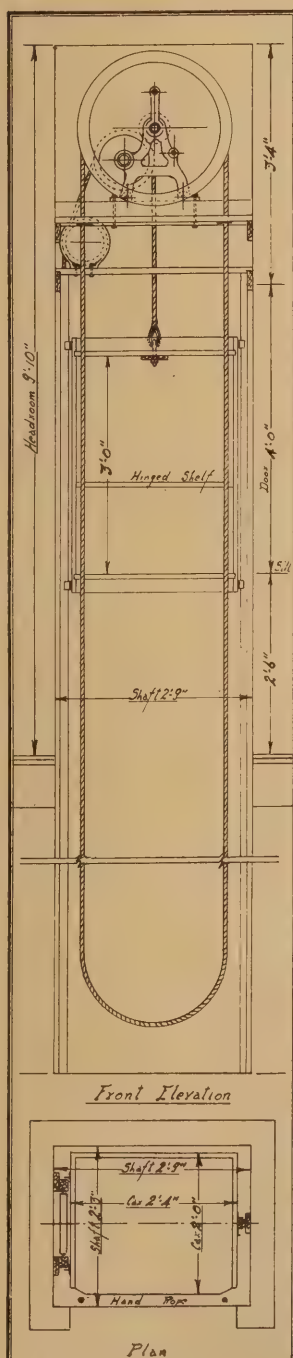
HOSPITAL DUMB WAITERS

Sedgwick Hand Power Dumb Waiters serve a variety of purposes in hospitals, sanitariums, and similar institutions.

Geared automatic brake dumb waiters with capacity of 200 pounds are installed for carrying trays and other comparatively light loads.

Outfits of heavier construction and equipped with machines of greater gear ratios are used for transporting food trucks and supplies in bulk, usually from the main kitchen to diet kitchens.

Sedgwick Laundry Lifts are designed to handle heavy laundry buses, which often are filled with loads weighing 300, 400 or 500 pounds.



Abbreviated specifications covering the Sedgwick Geared Automatic Brake Dumb Waiter shown in drawing are as follows:

MACHINE:—Machine cut spur gears, iron frame, full diameter hoist wheel, Sedgwick Automatic Brake; Capacity 200 pounds.

CAR:—28" x 24", selected hardwood, properly framed top and bottom, one hinged shelf.

GUIDE RUNS:—Georgia Pine.

COUNTERWEIGHT:—Adjustable.

ROPES:—Hand Rope, Hemp; Weight Rope, Marline covered wire rope, hemp center.

SEDGWICK MACHINE WORKS

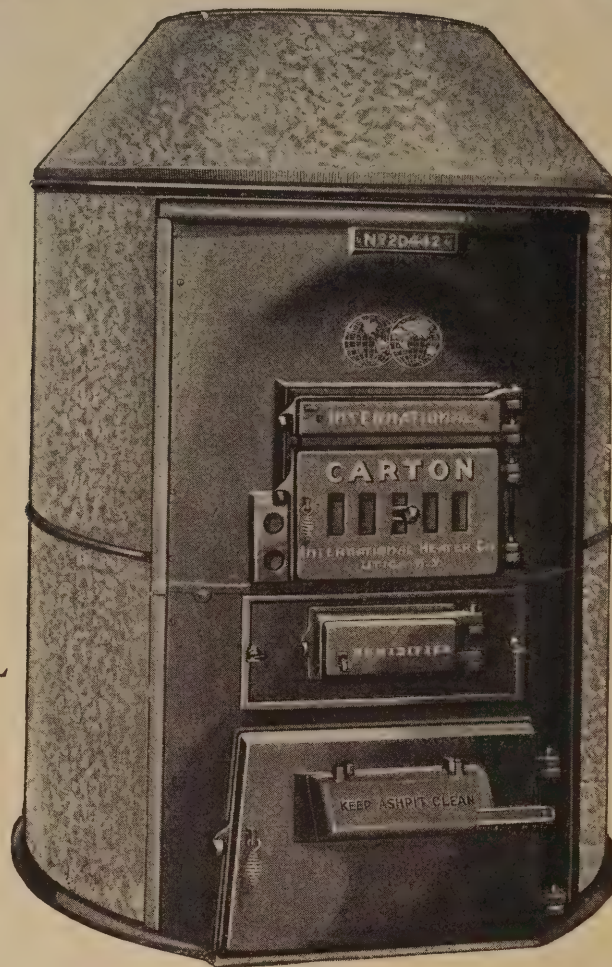
159 West 15th Street

New York City

Take Advantage of Sedgwick Service Experience.

INTERNATIONAL HEATERS

The
Self-Cleaning
INTERNATIONAL
Carton Warm
Air Furnace



Feed section, combustion dome, and radiator of the International Carton. Feed chute cast in one piece without a joint.

Combustion dome corrugated to increase efficiency. Self cleaning radiator is all cast iron in a single piece.

A Furnace For Finer Homes

The International Carton is one warm air furnace that may be specified with utmost confidence for the finer homes.

The Carton, by its design, has a large amount of heating surface, and utilizes every inch of this surface in the most efficient way.

The gradual flare of the castings, which reaches the widest point at the top of the radiator, brings

the rising air into contact with practically every square inch of this heating surface.

The Carton* maintains this heating efficiency, too—because it *cleans itself*.

Soot, which reduces the effectiveness of any heating surface, cannot collect in the Carton radiator. The sides are *vertical* and open into the firepot so soot falls back into fire to be consumed. No clean-

out door is necessary. The Carton is always soot-free.

In every respect this is the furnace to specify for finer homes. All we ask is that you include in the specifications, "*to be erected according to the Standard Code,*" and you are assured of a first class job. Catalog 1818X, describing the International Carton, will be sent to any architect or heating engineer on request, together with a copy of the Standard Code.

INTERNATIONAL HEATER COMPANY, UTICA, N. Y.

Steam and Hot Water Boilers, Warm Air Furnaces, and One-pipe Heaters

Branches: Cleveland - Detroit - Nashua, N. H. - Chicago - New York City

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



Better, More Economical Refrigeration

LIPMAN Full Automatic Refrigerating Machines have proven their superior operating economy in countless instances. The economy is built into the machine and comes out in the operation. Lipman Machines pioneered the field of automatic, mechanical refrigeration. Lipmans

were the first self-contained, one-unit models. Constant research and development have retained for Lipman that early advantage. Every Lipman Machine is an ammonia machine. Sales and Service Stations in all principal cities assure skilled assistance, promptly, no matter where you are.

General Refrigeration Company
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THE DRY, CONSTANT COLD OF THE MOUNTAIN TOP

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BEAUTY WITH CONCRETE
CAN BE ACHIEVED IN
ANY STRUCTURE THE
ARCHITECT MAY ELECT
TO DESIGN. BUILDINGS
IN EVERY SECTION OF
THE COUNTRY PROVE IT

WILSHIRE BOULEVARD CHURCH

One of the many fine examples of monolithic exposed concrete.
Architects · Allison & Allison · Los Angeles

Concrete for Permanence

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta
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Des Moines
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Geo. & Edw. Blum
Architects

H. R. H. Construction Co.
Builders

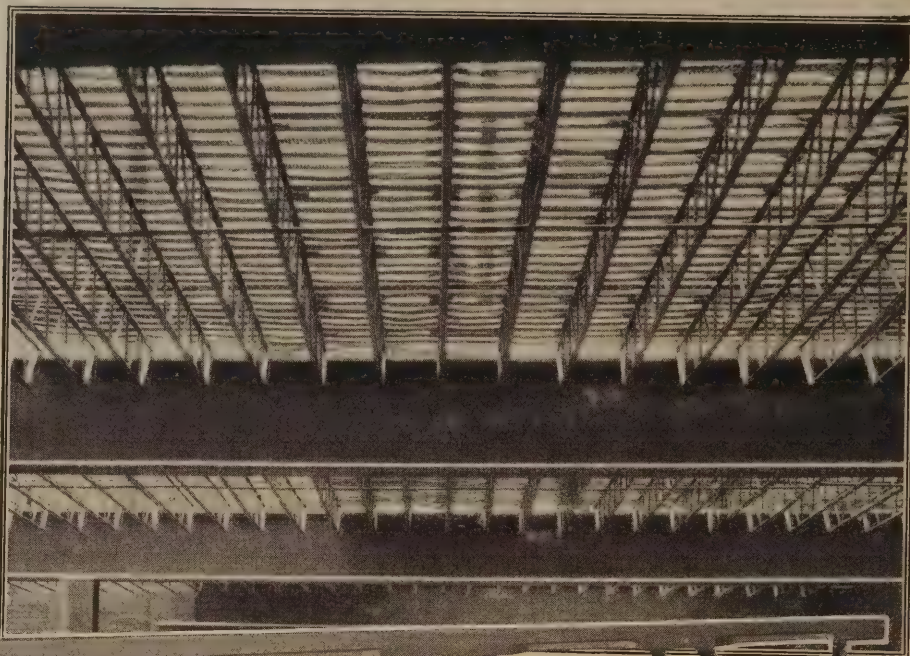
LOFT BUILDING
S. W. Cor. 36th St. and 8th Ave.

More than 1225 Pomeroy Double
Hung Superior Windows are
being installed in this building.

S. H. POMEROY COMPANY, Inc.
282-296 EAST 134th STREET
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SPECIFICATIONS AND DATA SENT ON REQUEST

*Rivet-Grip Steel Joists
used with Steel Frame
Construction.*



Ideal Floor Construction for Light Occupancy Buildings.

**Schools
Hospitals
Sanitariums
Hotels
Office Buildings.**

THE superiority of Rivet-Grip Steel Joists for buildings designed for light occupancy has won wide recognition from architects specializing in schools, hospitals, sanitariums and similar buildings.

Rivet-Grip Steel Joists are lighter than any other structural members of anywhere near equal strength. They embody the inherent strength of the steel truss which insures rigid, permanent, fire-safe floor construction. Absence of sheet metal members removes the possibility of damage from rust or corrosion.

Rivet-Grip Steel Joists are equally well adapted to use with steel girders and columns or reinforced concrete girders and columns.

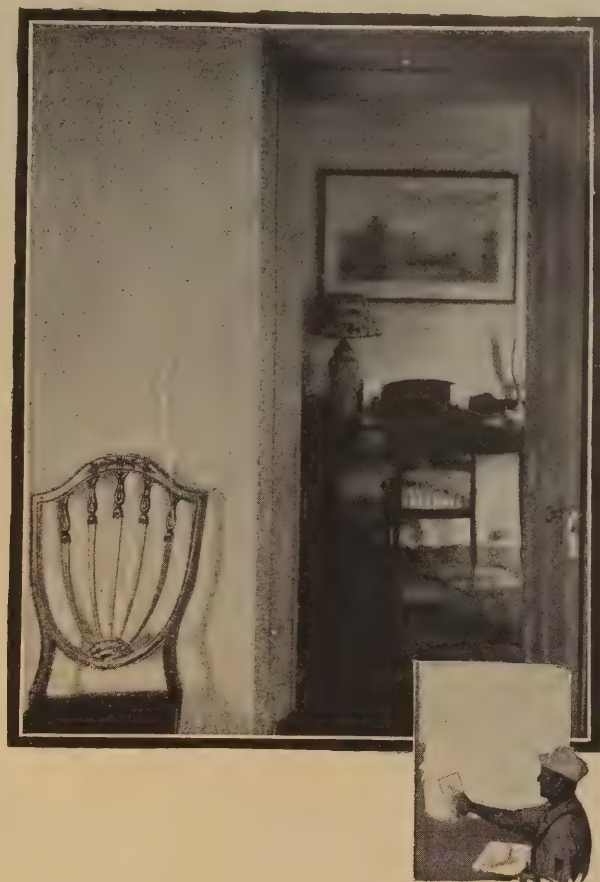
Write us today for tables of safe loads and other valuable information, or see our catalog in Sweet's.

THE RIVET-GRIP STEEL COMPANY
STEEL JOISTS—BANK VAULT REINFORCEMENT
2735 Prospect Ave., Cleveland, Ohio

Rivet-Grip

STEEL JOISTS

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



Permanently free from pits and pops

Applied as a finish coat Ohio White Lime produces a fire-resisting, metal-preserving, acoustics-improving wall, permanently free from pits and pops and immune to chipping, checking and blistering. It also lends itself readily to the plasterer's trowel,—smoothes up quickly and is highly responsive in the execution of delicate design.

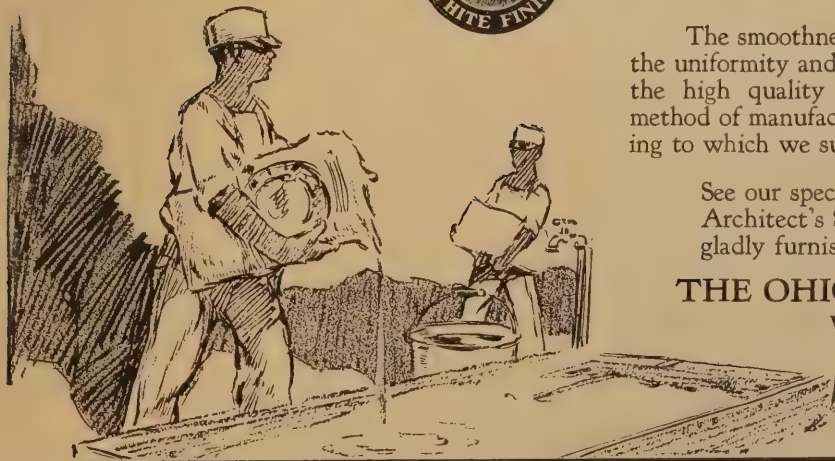


The smoothness and snow-white beauty of the wall, as well as the uniformity and plasticity of Ohio White Lime, is due partly to the high quality of the limestone in our quarry, partly to our method of manufacture and partly to the rigid inspection and testing to which we subject all lime before shipment.

See our specifications in "Sweet's" and The American Architect's Specification Manual. Further information gladly furnished upon request.

THE OHIO HYDRATE & SUPPLY CO.
WOODVILLE OHIO

"The Lime Center of the World"



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FLOURISHING· TODAY· AS· NEVER·
BEFORE· . . . MUST· HAVE· A· . . .
CORRECTLY· DESIGNED ———
METTOWEE· STONE· ROOF· TO·
BE· CORRECTLY· REPRODUCED·
· · ENTRUST· US· WITH· YOUR
COMMISSION· . . . ALL· WE· NEED
IS· THE· LOAN· OF· YOUR· ROOF
PLANS · · ——— · · . . .



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OF EASTON, PENNSYLVANIA
BOND BUILDING

ARCHITECTURAL DEPARTMENT

101 PARK AVENUE, NEW YORK, N. Y.



Armstrong's Linoleum *for every floor in the house*

HANDCRAFT TILE INLAID No. 3132
Blocks are $2\frac{3}{8}$ inches square

LIGHT GRAY JASPÉ No. 15, with BORDER OF PLAIN
BLACK No. 27

INSET TILE INLAID No. T42
Blocks are $5\frac{1}{2}$ inches
square



Armstrong's Gray Jaspé Linoleum lends distinction to the Philadelphia offices of Peat, Marwick & Mitchell. The paneling was effected by the use of an insert of plain black linoleum.



Are You Acquainted with This New Kind of Flooring?

WITH THE RETURN to color and design in floors, the new linoleum offers new floor opportunities to decorators and architects, and other lovers of beautiful interiors. This one-time kitchen covering has become a floor to be considered because of its artistic values for living-room, dining-room, and bedroom, as well as for fine shops and showrooms and clubs.

And to meet the call for floors that are appropriate, the Armstrong designing department has produced dozens of new floor designs. Today in Armstrong's Linoleum you have a flooring material fit for your finest interiors. There are soft two-tone jaspés and pleasing solid colorings, tiles, plain and marbled, available in a wealth of sizes and colors appropriate for any architectural motif.

Color and design are not the only excellent floor qualities that modern linoleum brings to you. From your experience with the battleship linoleum floors of hospitals, schools, and offices, you know it also as a restfully resilient, quiet, sanitary flooring that is easy to install and easy to keep clean. Waxing and polishing keep a modern linoleum floor looking its best at a minimum of maintenance expense.

So that you may get better acquainted with the handsome designs and the good qualities of Armstrong's Linoleum, why not let us send you colorplates and samples? A line on your letterhead will bring complete information about the selection of modern linoleum floors.

Look for the
CIRCLE A
trade-mark on
the burlap back



Armstrong Cork Company, Linoleum Division, Lancaster, Pennsylvania

OTIS

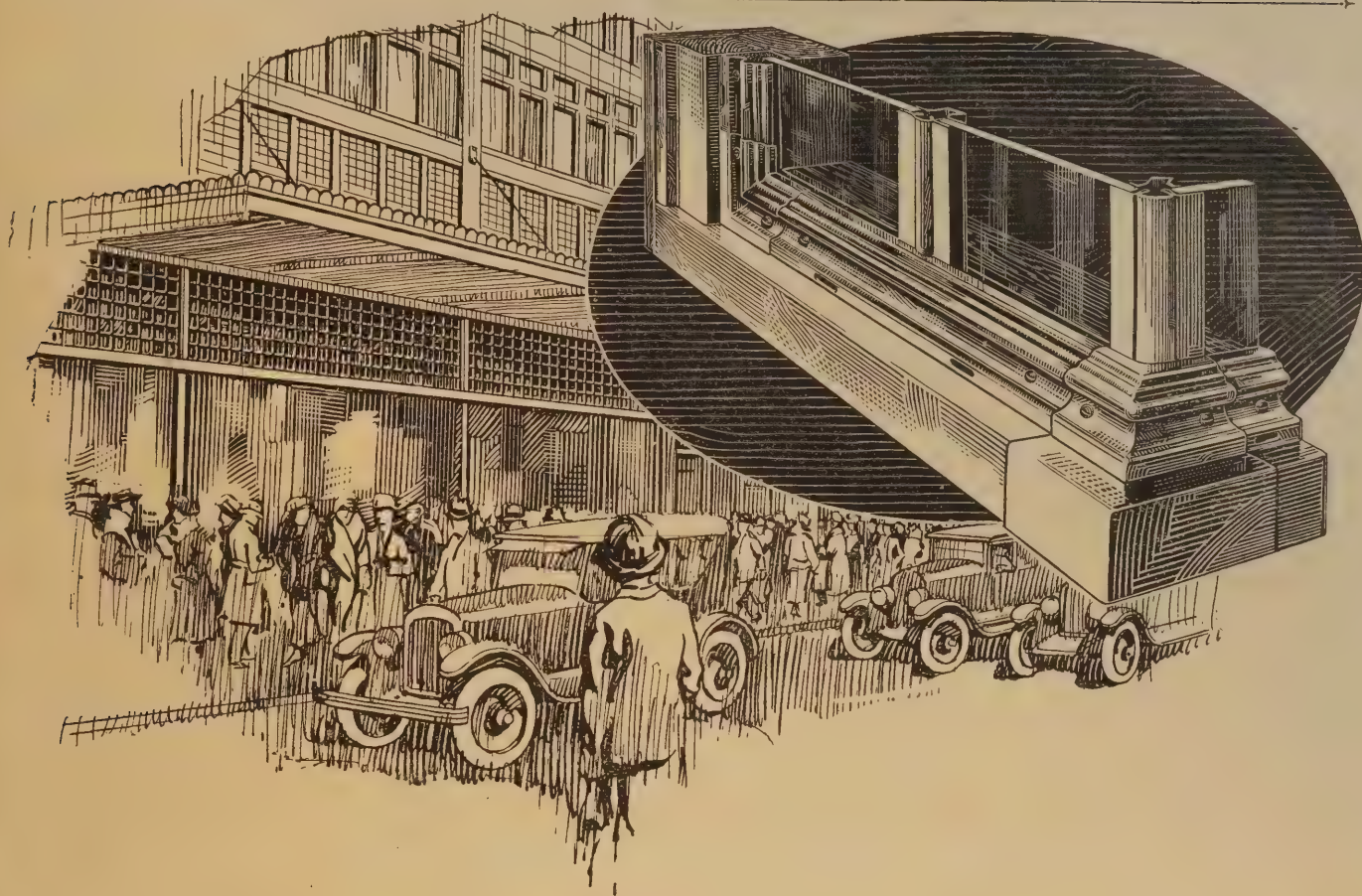
FOR NEARLY THREE QUARTERS OF A CENTURY

THE WORLD'S WORD
FOR
ELEVATOR SAFETY

OTIS ELEVATOR COMPANY

OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD





Odds of One to Four —and Desco Wins!

The architect can now specify store fronts which more than meet the taste and practical requirements of four classes of people.

For himself, he wants a range of designs—a flexibility to exactly solve his individual problem for each job.

The contractor looks primarily for ease of installation, for simplicity which avoids excessive labor charges.

The building owner demands moderate initial cost, yet with an eye on lasting service, low upkeep and glass safety.

The merchant lessee is ever after effective, compelling display of his merchandise.

“Desco” pleases and pays them all. Let us tell you how and why.

Your request will bring complete working details and a price-list, without obligation. Sweet's catalog also contains further information. There is a distributor near you. A complete stock of “Desco” construction materials is carried in our New York City warehouse, 562 West 52nd Street.

DETROIT SHOW CASE CO., 1650 Fort Street West

DETROIT, MICH.

Desco
METAL (256)

STORE FRONTS

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

FULTON MARKET COLD STORAGE CO., CHICAGO, ILL.

Gardner & Lindberg, Chicago, Architects & Engineers
Blome - Sinek Company, Chicago, General Contractors



PLENTY OF PROTECTION *HERE!*

Chicago has so many other things for which it is famous that its cold storage plants suffer by comparison.

Some of the finest cold storage plants in the world are in Chicago—but unfortunately for them, whenever we think of Chicago, we think of *stockyards*.

The plant shown above is considered

one of the finest in the Windy City—from the standpoint of size, design and efficiency. It is a monument to the industry.

But the owners probably realized that their plant would only be as good as its doors. Which explains why their plant is so good—and why they installed a total of 119 Jamison Doors.

Not alone in Chicago, but in cities of nearly every size in about every country in the world, you will find Jamison Products in plants requiring the protection they give.

Jamison Doors

Jamison Cold Storage Door Company
HAGERSTOWN, MD., U. S. A.

Did you know that we not only *sell*, but that we *manufacture*?

This company recently purchased its mill, and is now in a most advantageous position to supply exactly what is desired.

More and more instances are being recorded by leading architects in which a solid base makes the ideal plan to fit a room in the handsomest fashion.

Particular favor is being shown to



famous for its deep rich pile, soft base and lasting beauty.

May we suggest that you
see our complete line now?

CHARLES W. POULSON & SONS CARPET CO., INC.

295 Fifth Avenue New York City

PHILADELPHIA, PA.	SEATTLE, WASH.	CHICAGO, ILL.	DETROIT, MICH.
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OMAHA, NEB.	DALLAS, TEX.	LOS ANGELES	
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Concrete MUST Be Protected Against Water!

Concrete, like all structural material, needs protection against moisture. Water is mixed with cement and sand in making concrete. As the concrete dries, this water evaporates, leaving millions of tiny pores. In damp weather, these pores absorb moisture by capillary attraction. This continued alternating wetting and drying, with the resulting expansion and contraction of the concrete, causes checking, cracking and disintegration. Further, in cold weather the moisture in these pores freezes, producing a tremendous disruptive force which results in great damage to the concrete.

TRUSCON *Waterproofing Paste* **CONCENTRATED**

which is incorporated with the water used in mixing concrete or cement mortar, fills all these pores with a material that repels water instead of absorbing it. The concrete thus becomes permanently waterproof and, consequently, enduring, because the very agency which causes its destruction and disintegration can find no entrance. The use of Truscon Waterproofing Paste requires no extra labor. The cost of the material is negligible and the results certain.

THE TRUSCON LABORATORIES

DETROIT, MICHIGAN

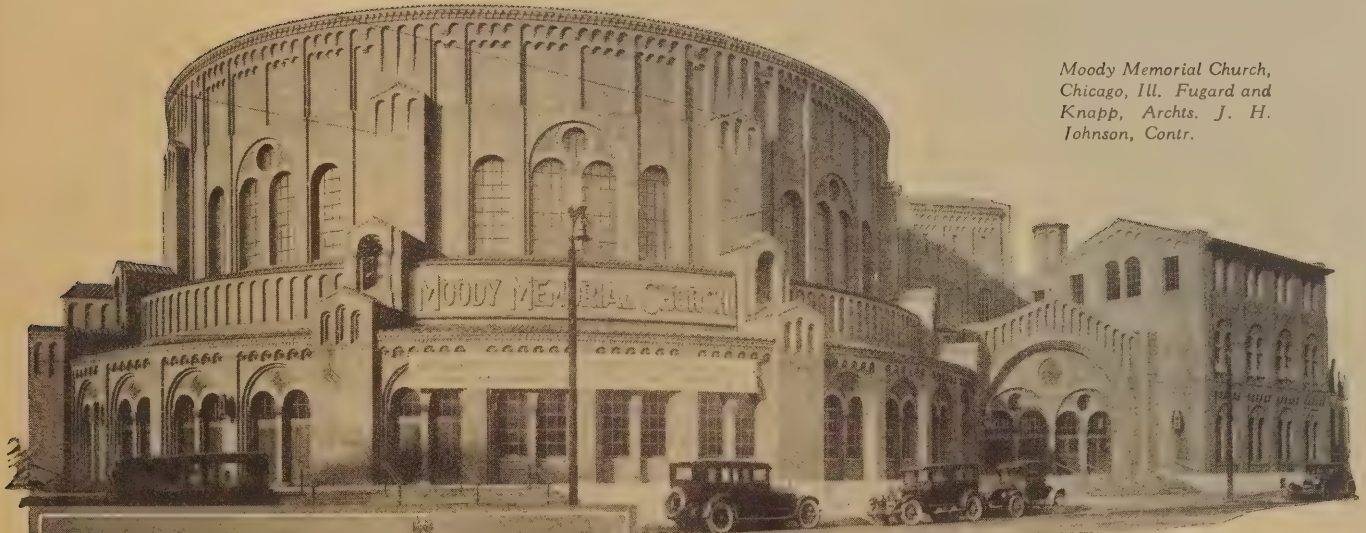
Offices in all principal cities. Foreign Trade Division, New York.



University of Michigan Hospital, Ann Arbor, Michigan. Albert Kahn, Architect. Foundations waterproofed with Truscon Waterproofing Paste Concentrated.

Economical Windows for Fine Buildings

Moody Memorial Church,
Chicago, Ill. Fugard and
Knapp, Archts. J. H.
Johnson, Contr.



THE high quality of the center pivoted type of Truscon Steel Windows is evidenced by their selection for the Moody Church, Chicago. A pleasing effect in thorough harmony with the excellence of the building is obtained with a very economical type of Truscon Steel Window.

High quality is fundamental with every type of Truscon Steel Window no matter what the cost. The complete line includes center-pivoted, double-hung, projected, counterbalanced, continuous, casement and basement windows; also mechanical operators and steel doors.

Truscon National Erection Service insures satisfactory installation. Truscon's immense manufacturing facilities insure high grade workmanship and economy. Truscon warehouses in distributing centers insure prompt delivery.

Drafting Room Standards Free on Request

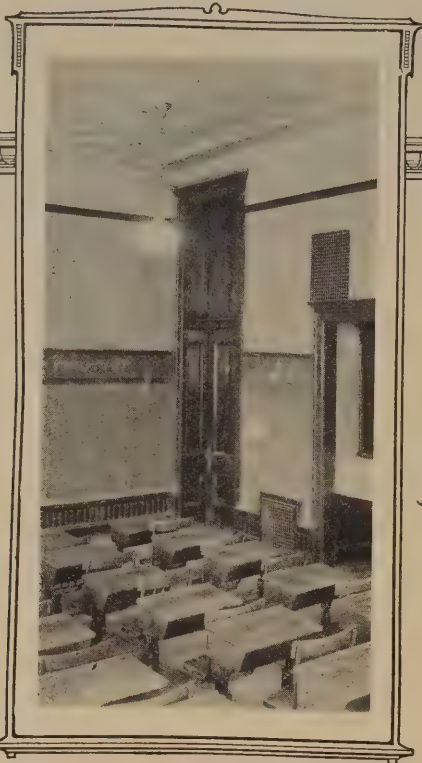
TRUSCON STEEL COMPANY, Youngstown, Ohio

Warehouses and offices in all Principal Cities
 Railroad Dept.: 165 E. Erie St., Chicago, Ill.
 Foreign Trade Division, New York
 The Truscon Laboratories, Detroit, Mich.
 Trussed Concrete Steel Co. of Canada, Ltd., Walkerville, Ont.

* TRUSCON STEEL WINDOWS

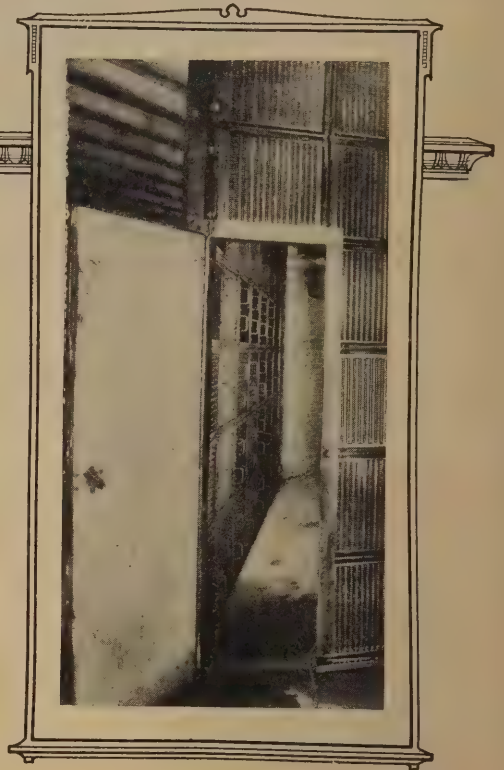
*A complete line of Steel Buildings, Steel Windows, Metal Lath, Steel Joists, Steel Poles, Concrete Reinforcing for Buildings and Roads, Pressed Steel Specialties, Waterproofing & Technical Paints. Truscon maintains Engineering and Warehouse Organizations thruout the Country.





Class Room, Roosevelt School
Pittsburgh, Pa.
Ventilated through Midwest Air Filters

Filtered Air and Its Applications



Part of the Midwest Air Filter instal-
lation in the Hamtramack High School,
Hamtramack, Michigan.

In the Ventilation of Schools

The menace of the bacteria and micro-organisms of every description always present in the dust of city and suburban air is sufficient reason for providing Midwest Air Filters in every school building.

Even the most robust children are open to the attack of these organisms, which find easy entrance and lodgement at the points where the dust which carries them irritates the delicate tissues of throat and lungs. And of course the dust also acts as a carrier of disseminated disease germs from infected children to others well out of range of their coughs and sneezes.

The usual economic advantages of clean air apply in schools just as much as in any other buildings.

Midwest installations in public and private schools all over the country are demonstrating their ability to supply air free of all harmful dust and bacteria at lower cost and with greater dependability than any other equipment.

Write for a copy of our newest circular AC-1

Some Outstanding Reasons for the Superiority of Midwest Air Filters in School Ventilation

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|--|-------------------------------------|
| 1. Unsurpassed Cleaning Efficiency | 5. Standard All Metal Construction |
| 2. Low and Constant Operating Resistance | 6. No Replacement or Repair Costs |
| 3. Largest Dust Capacity per Unit | 7. Remove All Harmful Bacteria |
| 4. Easy to Clean and Handle | 8. Cannot Cause Over Humidification |

MIDWEST AIR FILTERS

INCORPORATED

BRADFORD, PA.

Sales Offices in Principal Cities

Truscon Steel Joists for the Most Economical Fireproof Construction

SAFETY



HOSPITALS

HOTELS



RESIDENCES

SCHOOLS

TRUSCON STEEL JOISTS in the floor construction of all light-occupancy buildings provide the definite building advantages of fire safety, rigidity, and soundproofness. In addition they offer a lower cost for fireproof construction. They allow speedy building in any kind of weather and entirely eliminate the special concreting apparatus necessary for other types of permanent, fireproof floor construction.

Write for catalog and details.

TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO

Warehouses and Offices in All Principal Cities

Foreign Trade Division, New York

The Truscon Laboratories, Detroit, Mich.

Trussed Concrete Steel Co. of Canada, Ltd., Walkerville, Ont.

★ **TRUSCON**
STEEL JOISTS

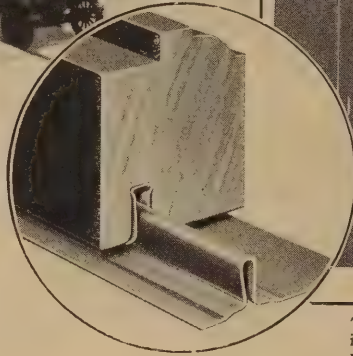
★A complete line of Steel Buildings, Steel Windows, Metal Lath, Steel Joists, Steel Poles, Concrete Reinforcing for Buildings and Roads, Pressed Steel Specialties, Waterproofing & Technical Paints. Truscon maintains Engineering and Warehouse Organizations thruout the Country.

OFFICE BUILDINGS

APARTMENTS



The Parkstone Apartments, Detroit, Michigan, Higgin All Metal Weatherstrips throughout.



The blue print shows a typical Higgin window installation in the Parkstone. Note the Higgin Insert Strip (patented) which really keeps the weather out by forming an impenetrable metal-to-metal contact.

Selling Comfort—at a profit

To the apartment renter *comfort* means *heat*—steady heat, plenty of it, without draughts, regardless of the sub-zero temperature and the high winds outside—and in the Parkstone Apartments, Detroit, he gets comfort as he wants it.

Below-zero cold-snaps and lake-gales, the Detroit weather man's regular winter production, don't upset the Parkstone's firing schedule or the manager's cost records. Higgin All Metal Weatherstrips on every window and door shut out the cold and the storm completely.

Call up your local Higgin Service Man and let him assist in working out your weather stripping and screening problems.

THE HIGGIN MFG. CO.

Newport, Ky. and Toronto, Can.

Look in your telephone or city directory for the address of your local Higgin Service Office, or write the home office direct. See our catalog in Sweets.

HIGGIN
ALL METAL
Screens and Weatherstrips

Write for these Details of Higgin equipment

- Screens for casements—wood or metal opening in.
- Screens for casements—wood or metal opening out.
- Screens for double hung windows.
- Screen equipment for horizontally pivoted steel sash.
- Screens for projected or reversible sash opening in.
- Screens for projected or reversible sash opening out.
- Weatherstrips for double hung windows.
- Weatherstrips for casements opening in.
- Weatherstrips for casements opening out.



The Best Insurance for *Crackproof Walls and Ceilings*

WHEN you use Truscon 1-A Hy-Rib Metal Lath you end all uncertainty as to the permanent attractiveness of plastered walls and ceilings. At the present time when interior design is so largely a matter of interesting plaster effects this is of extreme importance.

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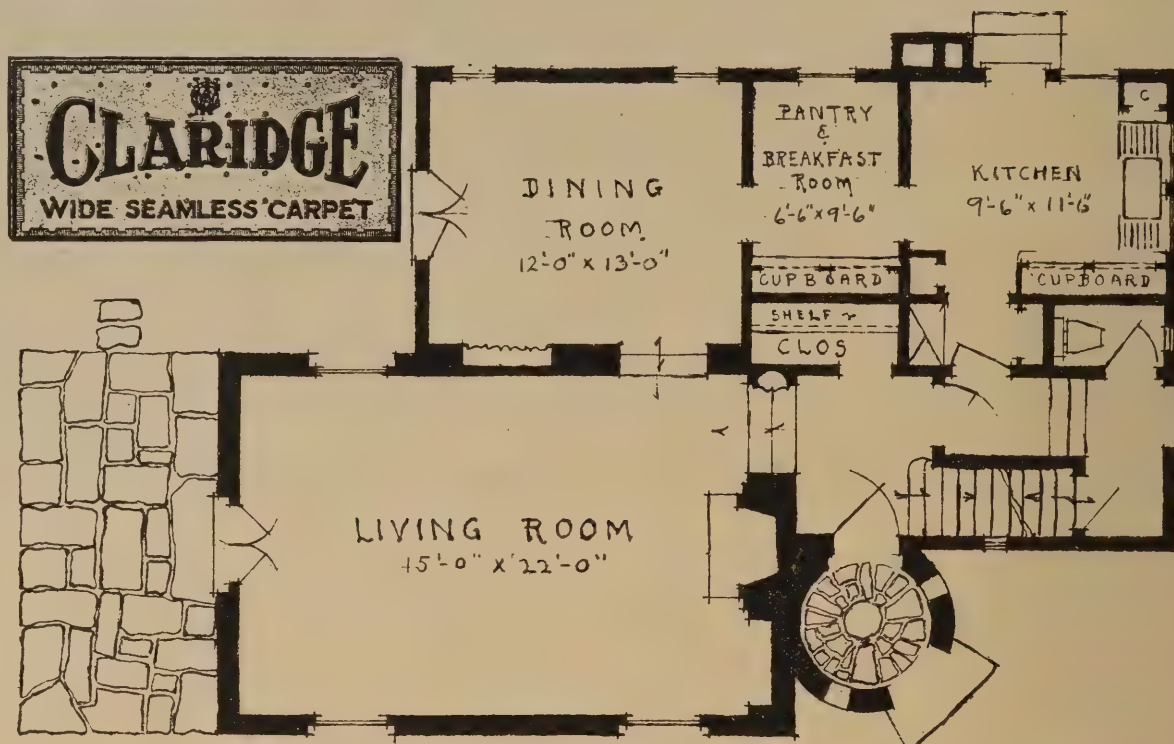
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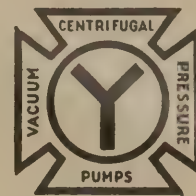
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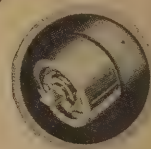
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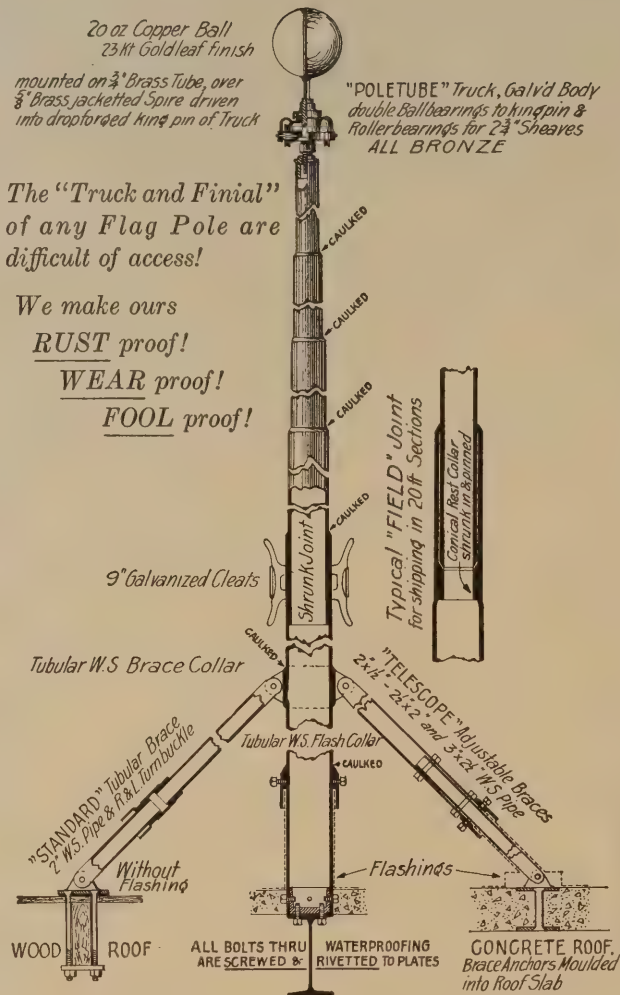
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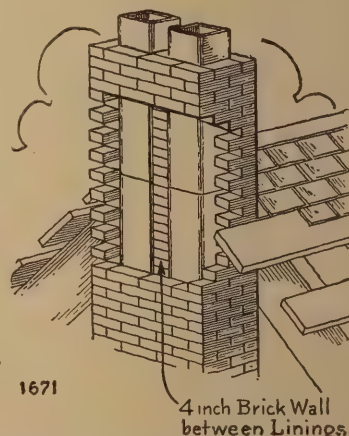
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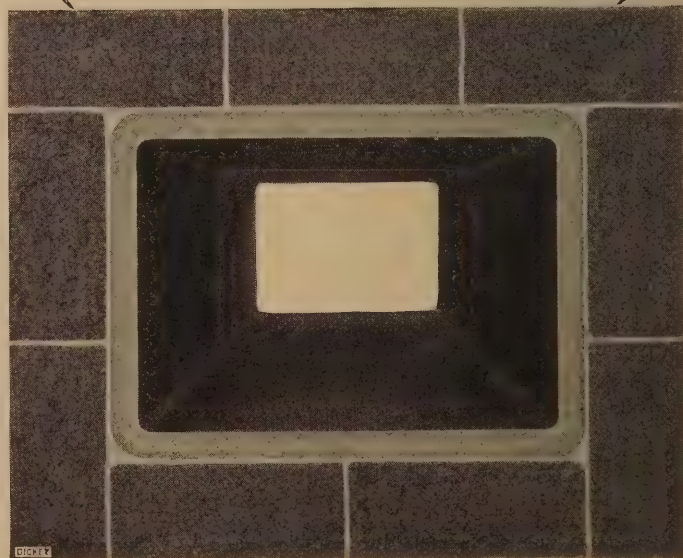


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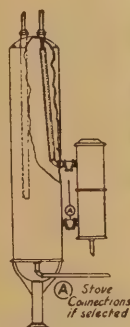
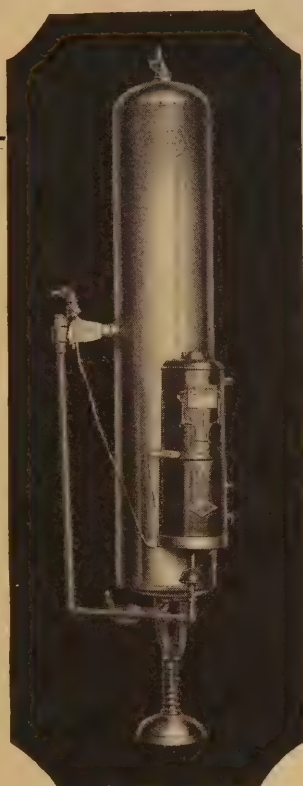
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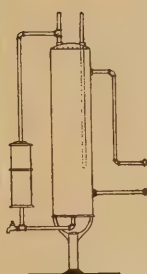


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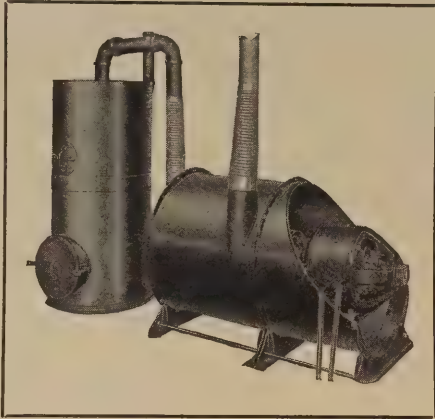
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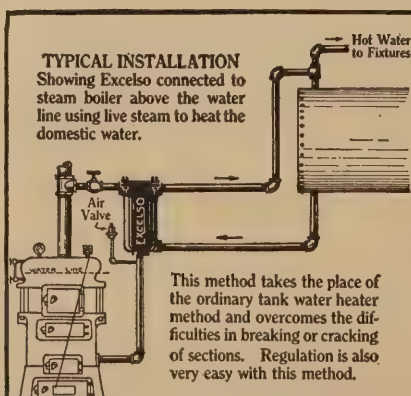
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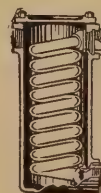
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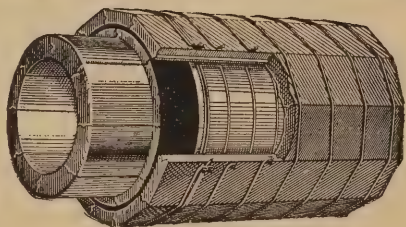
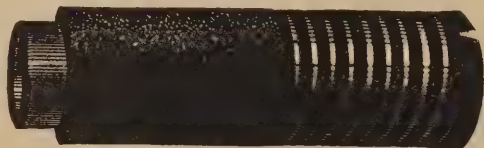
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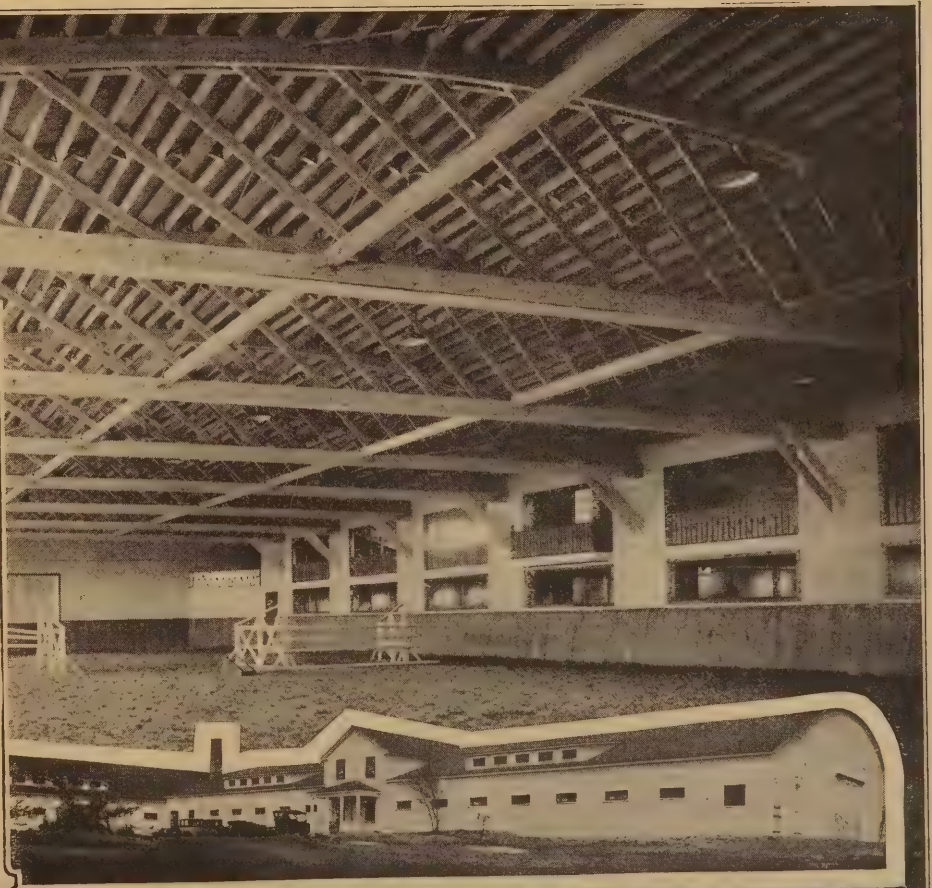
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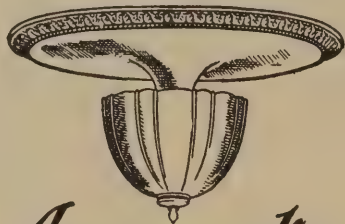
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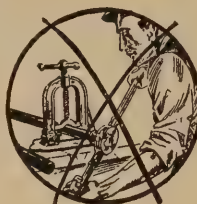
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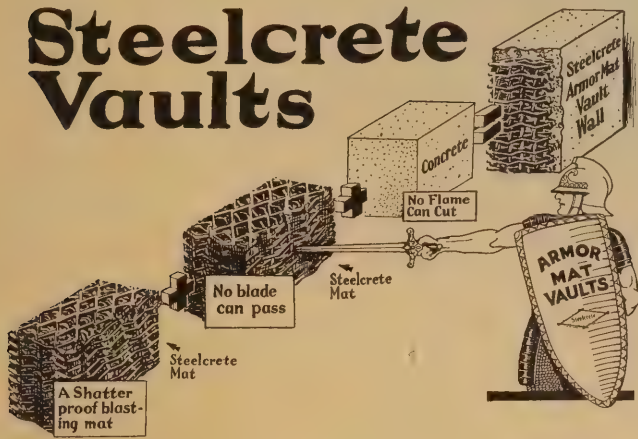
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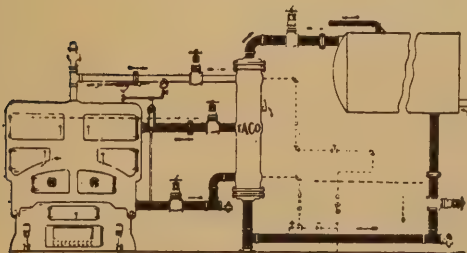
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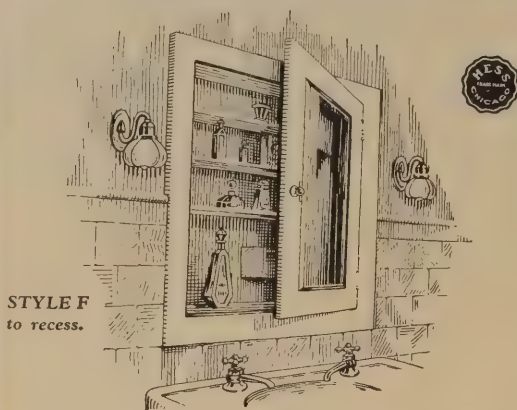
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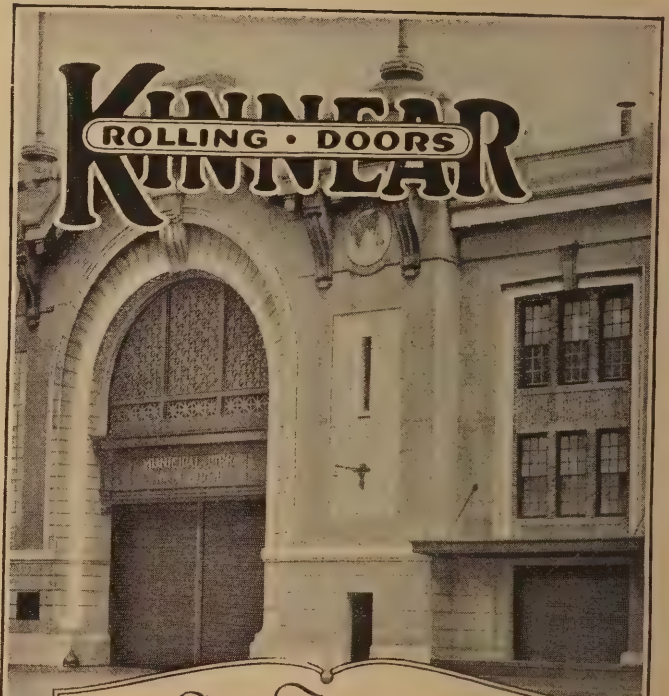
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DATED: April 5, 1926. (2495-96)

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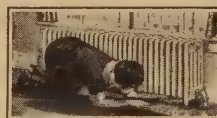
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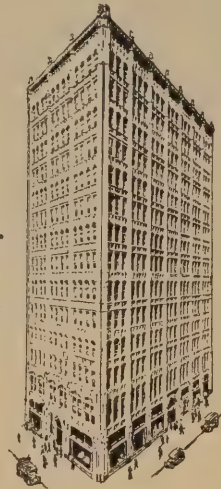
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Of The American Architect, published semi-monthly at New York, N. Y., for April 1, 1926.

State of New York } ss.
County of New York }

Before me, a Notary Public in and for the State and county aforesaid, personally appeared Fred S. Sly, who, having been duly sworn according to law, deposes and says that he is the Vice-President of the Architectural & Building Press, Inc., publishers of The American Architect, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication, for the date shown in the above caption, required by Act of August 24, 1912, embodied in Section 443, Postal Laws and Regulations, to wit:

1. That the names and addresses of the publisher, editors, managing editor and business manager are:

Publisher—The Architectural & Building Press, Inc., 239 West 39th Street, New York, N. Y.

Editors—William H. Crocker, 239 West 39th Street, New York, N. Y.; R. W. Sexton, 239 West 39th St., New York; B. F. Betts, 239 West 39th St., New York.

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Sworn to and subscribed before me this 30th day of March, 1926.

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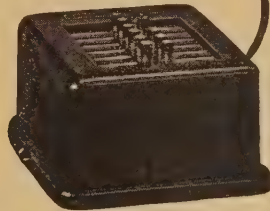
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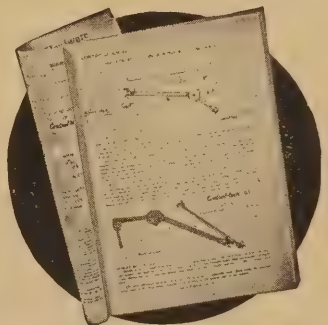
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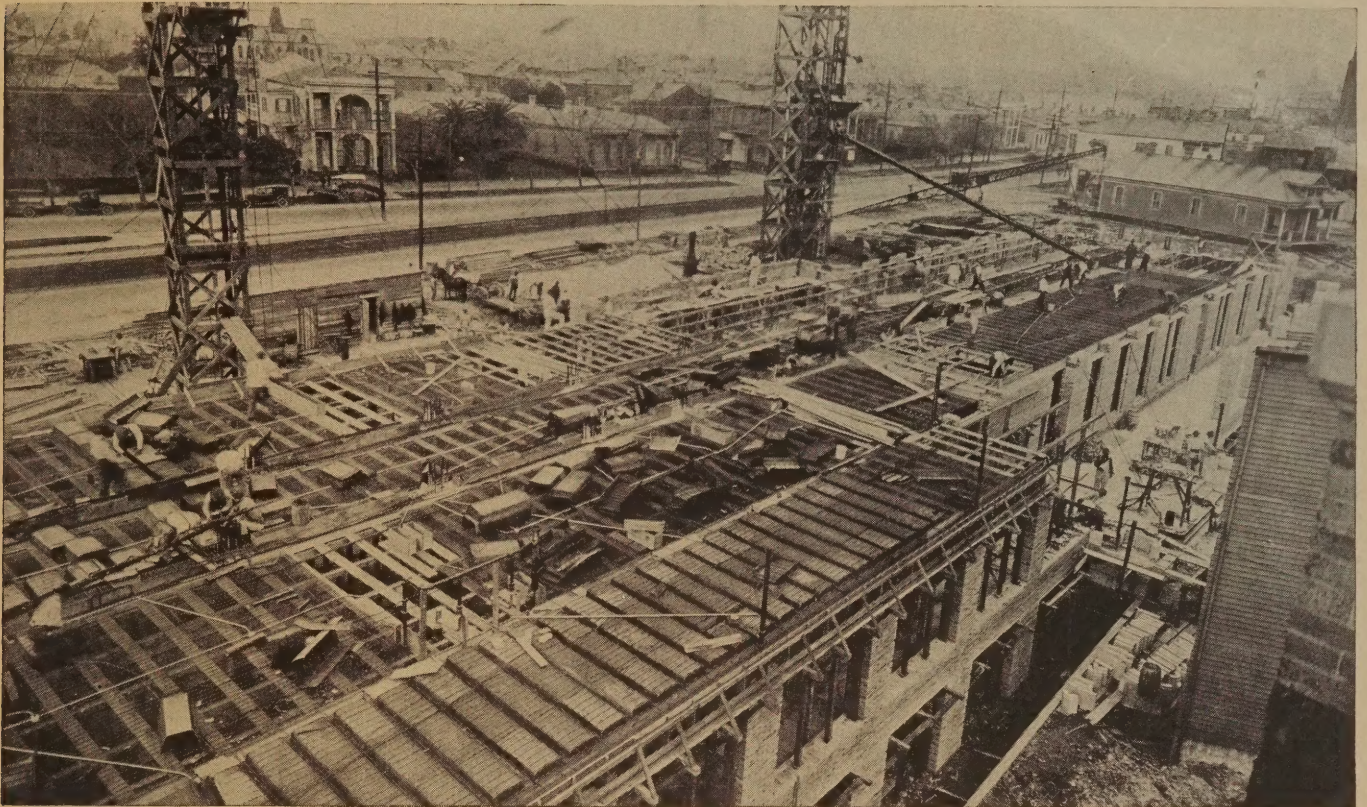
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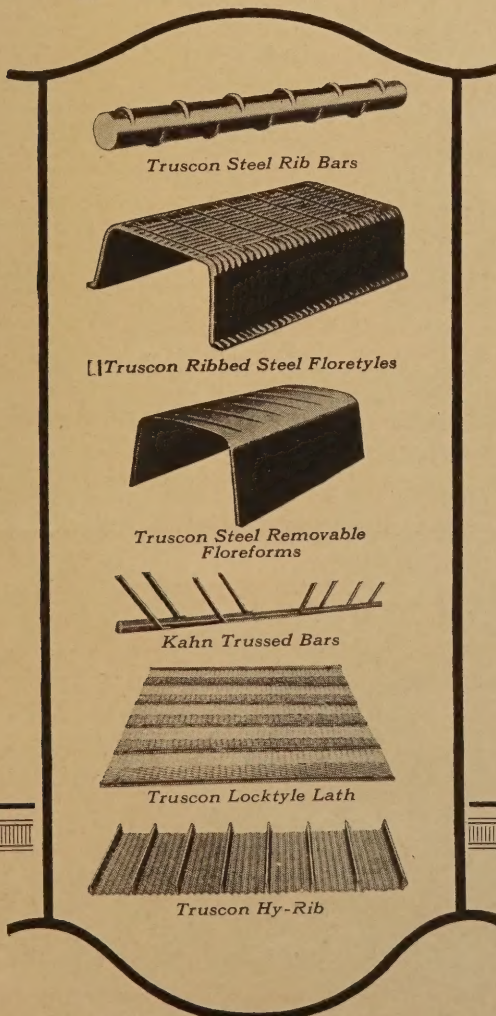


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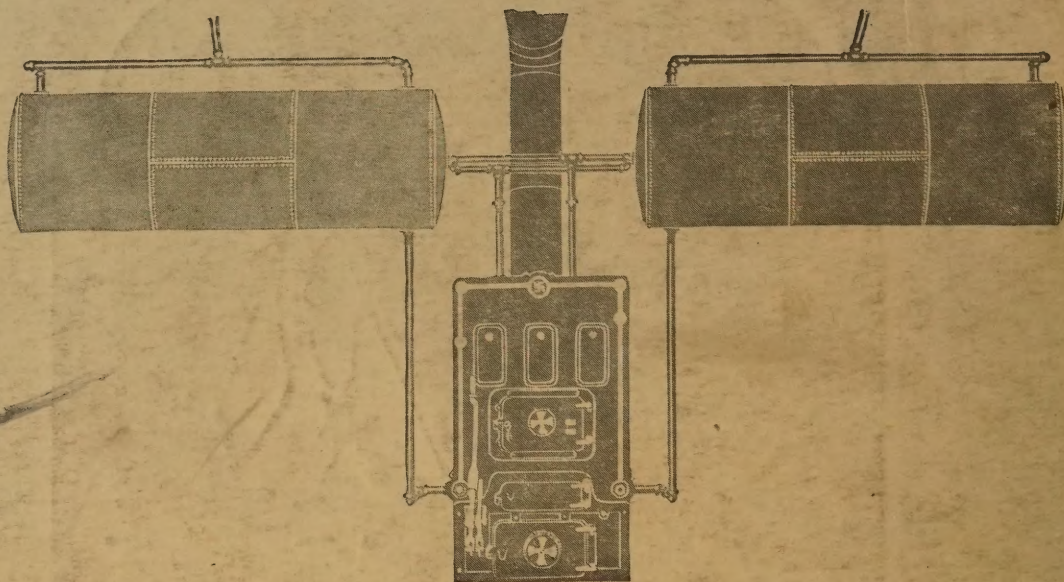
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